



**Lex** SYSTEM®

# Machine Vision Solution



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# PoE All-in-One & IP Machine Vision Solution



LEX PoE All-in-One & IP Machine Vision products with the combination of wide range of CPUs and built-in PoE / USB 3.0 & Multi-Ethernet channels, are developed to meet the demands for industrial automation on the production line. With compact mechanical chassis design, LEX PoE all-in-One & IP Machine Vision products make installation economical and easy for vision inspection applications in Industry 4.0 intelligent factories.



**TASK-3I393NX**



**SKY-3I170DW**



**TERA-2I610DW**

## Main features :

- Fanless / Performance / Reliability
- Compact size for limited spaces
- Support main stream camera interface :
- GIGE Vision / USB Vision compliant cameras
- Multiple processor options from entry to high performance demand
- 4-CH / 2-CH PoE / USB 3.0 camera interface
- Max up to 10 x Gb Ethernet



## Expandable Machine Vision Solution

With high-performance CPU and flexible I/O expansion, LEX Expandable Machine Vision products is well suited for all kinds of imaging-based automatic applications like machine vision, motion control, digital surveillance and factory automation. LEX Expandable Machine Vision solution features the fanless design chassis & supports add-on cards' full performances even in harsh condition.

## Main features :

- Robust mechanical designed for hash environment
- Expandable I/O interface
- 6th / 7th gen Intel Core i processors
- Flexible expansions: Mini PCIe , PCIe x 1 , PCIe x 4 & PCIe x 16
- Support GigE PoE / USB 3.0 camera interface
- Wide operating temperature (-o °C to 60 °C) for extreme environments



**APOLLO-PM170DW**



# PoE System



**TASK-(L)**



**TASK**



**TERA**

|                 |                 |                                                             |                                                             |                                                                          |
|-----------------|-----------------|-------------------------------------------------------------|-------------------------------------------------------------|--------------------------------------------------------------------------|
| MB model        |                 | 31170NX                                                     | 31610NX                                                     | 21380NX                                                                  |
| Camera          | Port            | 4                                                           | 4                                                           | 2                                                                        |
| Interface       | Technology      | PoE LAN                                                     | PoE LAN                                                     | PoE LAN                                                                  |
| CPU             |                 | Intel Skylake-S / Kaby Lake-S<br>i7 / i5 / i3 / Celeron CPU | Intel Skylake-S / Kaby Lake-S<br>i7 / i5 / i3 / Celeron CPU | Intel Bay Trail-E E3845<br>1.91 GHz (Quad Core)                          |
| Memory          | Type / Capacity | DDR4 2133MHz, Max up to 32GB                                | DDR4 2133MHz, Max up to 32GB                                | On Board DDR3L 1333MHz 4GB                                               |
| Display         |                 | HDMI + VGA                                                  | HDMI + VGA                                                  | VGA                                                                      |
| Storage         |                 | 1 x 2.5" SSD HDD, mSATA                                     | 1 x 2.5" SSD HDD, mSATA                                     | mSATA                                                                    |
| Rear I/O        |                 | 2 x USB 3.0 / 2 x COM /<br>5 x RJ 45 / DIO                  | 2 x USB 3.0 / 2 x USB 2.0 /<br>2 x COM / 5 x RJ 45 / DIO    | 1 x USB 3.0 / 1 x USB 2.0 / 3 x RJ 45 /<br>2 x COM / 1 x Micro SIM / DIO |
| Operating Temp. |                 | -20°C ~ +50°C                                               | -20°C ~ +60°C                                               | -20°C ~ +60°C                                                            |
| Power           |                 | Wide Range DC IN +12~36V                                    | Wide Range DC IN +12~36V                                    | Wide Range DC IN +9~36V                                                  |
| Expansion       |                 | 2 x Mini PCIe                                               | 2 x Mini PCIe                                               | 2 x Mini PCIe                                                            |
| Dimension       | W x D x H       | 210W x 200D x 77H mm                                        | 210W x 125D x 77H mm                                        | 145W x 106.2D x 56.5H mm                                                 |
|                 | Weight          | 3 KG                                                        | 1.9 KG                                                      | 0.9 KG                                                                   |

## IP System



**SKY 3**



**SKY 3**



**SKY 2**

|                 |                 |                                                             |                                                             |                                                             |
|-----------------|-----------------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|
| MB model        |                 | 31170NX                                                     | 31610NX                                                     | 21610DW                                                     |
| Camera          | Port            | 4                                                           | 4                                                           | 3                                                           |
| Interface       | Technology      | PoE LAN                                                     | PoE LAN                                                     | GbE LAE                                                     |
| CPU             |                 | Intel Skylake-S / Kaby Lake-S<br>i7 / i5 / i3 / Celeron CPU | Intel Skylake-U / Kaby Lake-U<br>i7 / i5 / i3 / Celeron CPU | Intel Skylake-U / Kaby Lake-U<br>i7 / i5 / i3 / Celeron CPU |
| Memory          | Type / Capacity | DDR4 2133MHz, Max up to 32GB                                | DDR4 2133MHz, Max up to 32GB                                | DDR4 2133MHz, Max up to 16GB                                |
| Display         |                 | HDMI + VGA                                                  | HDMI + VGA                                                  | VGA                                                         |
| Storage         |                 | 1 x 2.5" SSD HDD, mSATA                                     | 1 x 2.5" SSD HDD, mSATA                                     | 1 x 2.5" SSD HDD, mSATA                                     |
| Rear I/O        |                 | 2 x USB 3.0 / 2 x COM /<br>5 x RJ 45 / DIO                  | 2 x USB 3.0 / 2 x COM /<br>5 x RJ 45 / DIO                  | 3 x USB 3.0 / 3 x RJ 45, 2 x COM                            |
| Operating Temp. |                 | -20°C ~ +50°C                                               | -20°C ~ +60°C                                               | -20°C ~ +60°C                                               |
| Power           |                 | Wide Range DC IN +12~36V                                    | Wide Range DC IN +12~36V                                    | Wide Range DC IN +9~36V                                     |
| Expansion       |                 | 2 x Mini PCIe                                               | 2 x Mini PCIe                                               | 2 x Mini PCIe                                               |
| Dimension       | W x D x H       | 183W x 142.2D x 66.9H mm                                    | 183W x 142.2D x 83.9H mm                                    | 141W x 111.2D x 71.9H mm                                    |
|                 | Weight          | 2.8 KG                                                      | 2.8 KG                                                      | 1.36 KG                                                     |

# IP system



**TASK**



**TASK**



**TERA**

|                  |                 |                                                          |                                                          |                                                          |
|------------------|-----------------|----------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|
| MB model         |                 | 3I610DW + L2L001                                         | 3I170DW                                                  | 2I610DW                                                  |
| Camera Interface | Port            | 10                                                       | 5                                                        | 3                                                        |
|                  | Technology      | GbE LAN                                                  | GbE LAN                                                  | GbE LAN                                                  |
| CPU              |                 | Intel Skylake-U / Kaby Lake-U i7 / i5 / i3 / Celeron CPU | Intel Skylake-S / Kaby Lake-S i7 / i5 / i3 / Celeron CPU | Intel Skylake-U / Kaby Lake-U i7 / i5 / i3 / Celeron CPU |
| Memory           | Type / Capacity | DDR4 2133MHz, Max up to 32GB                             | DDR4 2133MHz, Max up to 16GB                             | DDR4 2133MHz, Max up to 16GB                             |
| Display          |                 | 2 x HDMI                                                 | HDMI + VGA                                               | VGA                                                      |
| Storage          |                 | mSATA                                                    | 1 x 2.5" SSD HDD, mSATA                                  | 1 x 2.5" SSD HDD, mSATA                                  |
| Rear I/O         |                 | 4 x USB 3.0 / 2 x COM / 10 x RJ 45 / DIO                 | 2 x USB 3.0 / 2 x USB 2.0 / 2 x COM / 5 x RJ 45 / DIO    | 3 x USB 3.0 / 3 x RJ 45, 2 x COM                         |
| Operating Temp.  |                 | -20°C ~ +60°C                                            | -20°C ~ +60°C                                            | -20°C ~ +60°C                                            |
| Power            |                 | Wide Range DC IN +9~36V                                  | Wide Range DC IN +9~36V                                  | Wide Range DC IN +9~36V                                  |
| Expansion        |                 | 2 x Mini PCIe, eIO                                       | 2 x Mini PCIe                                            | 2 x Mini PCIe                                            |
| Dimension        | W x D x H       | 210W x 125D x 77H mm                                     | 210W x 125D x 77H mm                                     | 145W x 106.2D x 56.5H mm                                 |
|                  | Weight          | 1.9 KG                                                   | 1.9 KG                                                   | 0.9 KG                                                   |



**MIRO 2-eIO**



**MIRO 3**



**NET-I**

|                  |                 |                                                                                                       |                                                                                                   |                                                 |
|------------------|-----------------|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------------------------------|
| MB model         |                 | 2I390CW + L2L001                                                                                      | 3I385AW                                                                                           | 2I380D                                          |
| Camera Interface | Port            | 7                                                                                                     | 2                                                                                                 | 3                                               |
|                  | Technology      | GbE LAN                                                                                               | GbE LAN                                                                                           | GbE LAN                                         |
| CPU              |                 | Intel Apollo Lake N4200 2.5 GHz (Quad Core)<br>N3350 2.4 GHz (Dual Core)<br>E3950 2.0 GHz (Quad Core) | Intel Bay Trail-I / Bay Trail-D J1900<br>E3825 1.33 GHz (Dual Core)<br>E3845 1.91 GHz (Quad Core) | Intel Bay Trail-D J1900<br>2.0 GHz (Quad Core)  |
| Memory           | Type / Capacity | On Board DDR3L 1600MHz 4GB                                                                            | DDR3L 1333MHz, Max up to 8GB                                                                      | On Board DDR3L 1333MHz 4GB                      |
| Display          |                 | HDMI + DVI                                                                                            | DVI + VGA                                                                                         | VGA                                             |
| Storage          |                 | mSATA                                                                                                 | 1 x 2.5" SSD HDD, mSATA                                                                           | mSATA, M.2 B Key                                |
| Rear I/O         |                 | 1 x USB 3.0 / 1 x USB 2.0 / 2 x COM / 7 x RJ 45                                                       | 4 x USB 3.0 / 6 x COM / 2 x RJ 45 / DIO                                                           | 1 x USB 3.0 / 3 x USB 2.0 / 3 x RJ 45 / 2 x COM |
| Operating Temp.  |                 | -20°C ~ +70°C                                                                                         | -20°C ~ +70°C                                                                                     | -20°C ~ +60°C                                   |
| Power            |                 | Wide Range DC IN +9~36V                                                                               | Wide Range DC IN +9~36V                                                                           | Wide Range DC IN +12~24V                        |
| Expansion        |                 | 2 x Mini PCIe, eIO                                                                                    | 2 x Mini PCIe                                                                                     | 1 x Mini PCIe                                   |
| Dimension        | W x D x H       | 140W x 92D x 72H mm                                                                                   | 178W x 116D x 90.9H mm                                                                            | 106W x 85D x 30H mm                             |
|                  | Weight          | 0.95 KG                                                                                               | 1.75 KG                                                                                           | 0.41 KG                                         |

# Expandable



APOLLO



MIRO 2-RS

|                  |                 |                                                             |                                                                                              |
|------------------|-----------------|-------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| MB model         |                 | PM170DW                                                     | 2I386EW                                                                                      |
| Camera Interface | Port Technology | Depends on Add on cards                                     | Depends on Add on cards                                                                      |
| CPU              |                 | Intel Skylake-S / Kaby Lake-S<br>i7 / i5 / i3 / Celeron CPU | Intel Bay Trail-I E3825 1.33 GHz (Dual Core)<br>Intel Bay Trail-I E3845 1.91 GHz (Quad Core) |
| Memory           | Type / Capacity | DDR4 2133MHz, Max up to 32GB                                | DDR3L 1333MHz, Max up to 8GB                                                                 |
| Display          |                 | HDMI + VGA                                                  | VGA                                                                                          |
| Storage          |                 | 1 x 2.5" SSD HDD, mSATA                                     | 1 x 2.5" SSD HDD, mSATA                                                                      |
| Rear I/O         |                 | 4 x USB 3.0 /<br>2 x COM / 4 x RJ 45                        | 1 x USB 3.0 / 1 x USB 2.0 / 4 x COM /<br>2 x RJ 45 / DIO                                     |
| Operating Temp.  |                 | 0°C ~ +60°C                                                 | -20°C ~ +70°C                                                                                |
| Power            |                 | Wide Range DC IN +9~36V                                     | Wide Range DC IN +9~36V                                                                      |
| Expansion        |                 | 2 x Mini PCIe, 1 x PCIe x 16, 1 x PCIe x 4                  | 2 x Mini PCIe, 1 x PCI, 1 x PCIe x 1                                                         |
| Dimension        | W x D x H       | 250W x 173D x 129H mm                                       | 168W x 168D x 86.5H mm                                                                       |
|                  | Weight          | 4.09 KG                                                     | 1.4 KG                                                                                       |



TWISTER



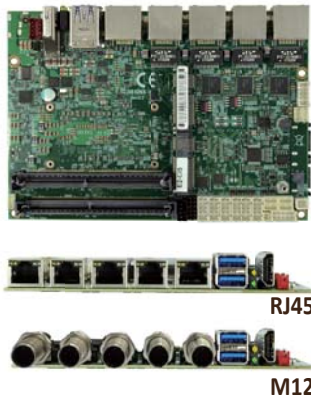
TINO-2 PCI



1U

|                  |                 |                                                             |                                                             |                                                             |
|------------------|-----------------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|
| MB model         |                 | CI170C                                                      | CI170C                                                      | CI170C                                                      |
| Camera Interface | Port Technology | Depends on Add on cards                                     | Depends on Add on cards                                     | Depends on Add on cards                                     |
| CPU              |                 | Intel Skylake-S / Kaby Lake-S<br>i7 / i5 / i3 / Celeron CPU | Intel Skylake-S / Kaby Lake-S<br>i7 / i5 / i3 / Celeron CPU | Intel Skylake-S / Kaby Lake-S<br>i7 / i5 / i3 / Celeron CPU |
| Memory           | Type / Capacity | DDR4 2133MHz, Max up to 32GB                                | DDR4 2133MHz, Max up to 32GB                                | DDR4 2133MHz, Max up to 32GB                                |
| Display          |                 | DVI + HDMI + DP                                             | DVI + HDMI + DP                                             | DVI + HDMI + DP                                             |
| Storage          |                 | 1 x 2.5" SSD HDD, mSATA                                     | 1 x 2.5" SSD HDD, mSATA                                     | 4 x 2.5" SSD HDD, mSATA                                     |
| Rear I/O         |                 | 4 x USB 3.0 / 5 x COM /<br>5 x RJ 45                        | 4 x USB 3.0 / 7 x COM /<br>5 x RJ 45 / DIO                  | 4 x USB 3.0 / 4 x COM /<br>5 x RJ 45                        |
| Operating Temp.  |                 | -20°C ~ +50°C                                               | -20°C ~ +50°C                                               | -20°C ~ +50°C                                               |
| Power            |                 | DC IN +12V                                                  | DC IN +12V                                                  | DC IN +12V                                                  |
| Expansion        |                 | 2 x Mini PCIe, 1 x PCIe x 16                                | 2 x Mini PCIe, 2 x PCIe x 8                                 | 2 x Mini PCIe, 2 x PCIe x 8                                 |
| Dimension        | W x D x H       | 300W x 200D x 85H mm                                        | 268W x 182D x 110H mm                                       | 440W x 360D x 44.6H mm                                      |
|                  | Weight          | 2.9 KG                                                      | 6 KG                                                        | 6 KG                                                        |

# Motherboard

| LEX 3.5" (146 x 102 mm)                                                                                                      |                 | LEX 3.5" (160 x 122 mm)                                                            | LEX (102 x 83 mm)                                                                  |                                                                                             |
|------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Application                                                                                                                  |                 | Automation • Networking<br>• Surveillance                                          | Automation • Networking<br>• Surveillance                                          |                                                                                             |
| CPU Platform                                                                                                                 |                 | Intel Skylake-U / Kaby Lake-U<br>i7 / i5 / i3 / Celeron SoC CPU                    | Intel Skylake-S / Kaby Lake-S<br>i7 / i5 / i3 / Celeron CPU                        | Intel Bay Trail-I E3845<br>1.91 GHz (Quad Core)                                             |
| <div>intel<br/>Skylake-U<br/>Kaby Lake-U</div> <div>intel<br/>Skylake-S<br/>Kaby Lake-S</div> <div>intel<br/>Bay Trail</div> |                 |  |  |          |
| Model Name                                                                                                                   |                 | 3I610NX                                                                            | 3I170NX                                                                            | 2I380NX                                                                                     |
| Chipset                                                                                                                      |                 | Intel Skylake-U / Kaby Lake-U<br>i7 / i5 / i3 / Celeron SoC CPU                    | Intel Q170                                                                         | Intel Bay Trail-I E3845<br>1.91 GHz (Quad Core)                                             |
| Memory                                                                                                                       | Type / Capacity | DDR4 2133 MHz                                                                      | DDR4 2133 MHz                                                                      | DDR3L 1333 MHz                                                                              |
|                                                                                                                              | SO-DIMM         | 2, max up to 32GB                                                                  | 2, max up to 32GB                                                                  | N/A                                                                                         |
|                                                                                                                              | On board Memory | N/A                                                                                | N/A                                                                                | 4GB                                                                                         |
| SSD storage                                                                                                                  | mSATA           | YES                                                                                | YES                                                                                | YES                                                                                         |
| VGA / DP                                                                                                                     |                 | VGA                                                                                | VGA                                                                                | VGA                                                                                         |
| eDP / LVDS / Touch Screen                                                                                                    |                 | N/A                                                                                | N/A                                                                                | N/A                                                                                         |
| HDMI / DVI                                                                                                                   |                 | 1 x HDMI                                                                           | 1 x HDMI                                                                           | N/A                                                                                         |
| Ethernet                                                                                                                     |                 | 5 x Intel GbE (4 Port PSE)                                                         | 5 x Intel GbE (4 Port PSE)                                                         | 2 x PoE + 1 x Intel GbE (external)                                                          |
| Audio                                                                                                                        |                 | N/A                                                                                | Line-out / Mic-in (internal)                                                       | Line-out / Mic-in (internal)                                                                |
| Mini-PCIe                                                                                                                    | Slot 1          | (Full Size) PCIe / mSATA / USB                                                     | (Full Size) PCIe / mSATA / USB                                                     | (Full Size) mSATA / USB                                                                     |
|                                                                                                                              | Slot 2          | (Full Size) PCIe / USB 3.0                                                         | (Half Size) PCIe / mSATA / USB                                                     | (Full Size) PCIe / USB / mSATA                                                              |
| SIM Card Holder                                                                                                              |                 | N/A                                                                                | 1                                                                                  | 1 x Micro SIM                                                                               |
| SATA                                                                                                                         |                 | 2                                                                                  | 2                                                                                  | 1 (Share with mSATA)                                                                        |
| USB                                                                                                                          |                 | 2 x USB 3.0<br>6 x USB 2.0                                                         | 2 x USB 3.0<br>8 x USB 2.0                                                         | 1 x USB 3.0 (external)<br>3 x USB 2.0 (1 x external<br>+ 2 x internal-share with mini Card) |
| Serial IO                                                                                                                    |                 | 2 x RS232 / 422 / 485 (internal)                                                   | 2 x RS232 / 422 / 485<br>(external + internal)                                     | 2 x RS232 / 422 / 485 (internal)                                                            |
| GPIO / WDT                                                                                                                   |                 | 16 DI / 16DO, WDT                                                                  | 8DI / 8DO, WDT                                                                     | 4 DI / 4DO, WDT                                                                             |
| PS2 KB/MS                                                                                                                    |                 | N/A                                                                                | internal                                                                           | YES (internal)                                                                              |
| Power Input                                                                                                                  |                 | Wide Range DC IN +12~36V                                                           | Wide Range DC IN +12~36V                                                           | Wide Rang +9~36V                                                                            |
| Expansion                                                                                                                    |                 | GPS, 3G / 4G, Bluetooth, WI-FI, I/O                                                | GPS, 3G / 4G, Bluetooth, WI-FI, I/O                                                | GPS, 3G / 4G, Bluetooth, WI-FI                                                              |
| Operating Temp.                                                                                                              |                 | -20°C ~ 70°C                                                                       | -20°C ~ 60°C                                                                       | -20°C ~ 70°C                                                                                |
| Chassis                                                                                                                      |                 | BOX PC: TASK, SKY 3                                                                | BOX PC: SKY 3                                                                      | BOX PC: TERA, SKY 2                                                                         |

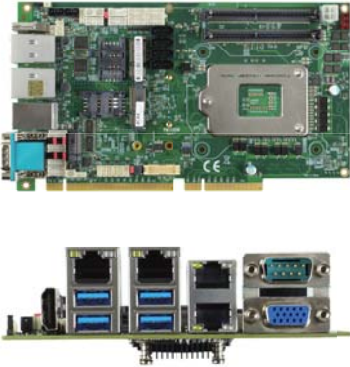
# Motherboard

|                                                                                                                                                                                                                                                                                  |                 | (146 x 110 mm)                                                                                                                                    | 3.5" (146 x 102 mm)                                                                                                                                   | 2.5" (102 x 83 mm)                                                                                                                                      | (90.8 x 76.25 mm)                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Application                                                                                                                                                                                                                                                                      |                 | Automation<br>• Networking                                                                                                                        | Automation<br>• Networking                                                                                                                            | Automation<br>• Networking                                                                                                                              | Automation<br>• Networking                                                                                                             |
| CPU Platform<br><br><br><br> |                 | Intel Skylake-S / Kaby Lake-S i7 / i5 / i3 / Celeron CPU<br><br> | Intel Skylake-U / Kaby Lake-U i7 / i5 / i3 / Celeron SoC CPU<br><br> | Intel Skylake-U / Kaby Lake-U i7 / i5 / i3 / Celeron SoC CPU<br><br> | Intel Bay Trail-D J1900 2.0 GHz (Quad Core)<br><br> |
| Model Name                                                                                                                                                                                                                                                                       |                 | 3I170DW                                                                                                                                           | 3I610DW                                                                                                                                               | 2I610DW                                                                                                                                                 | 2I380D                                                                                                                                 |
| Chipset                                                                                                                                                                                                                                                                          |                 | Intel® Q170                                                                                                                                       | Intel® Skylake-U / Kaby Lake-U i7 / i5 / i3 / Celeron SoC CPU                                                                                         | Intel® Skylake-U / Kaby Lake-U i7 / i5 / i3 / Celeron SoC CPU                                                                                           | Intel Bay Trail-D J1900 2.0 GHz (Quad Core)                                                                                            |
| Memory                                                                                                                                                                                                                                                                           | Type / Capacity | DDR4 2133 MHz                                                                                                                                     | DDR4 2133 MHz                                                                                                                                         | DDR4 2133 MHz                                                                                                                                           | DDR3L 1333 MHz                                                                                                                         |
|                                                                                                                                                                                                                                                                                  | SO-DIMM         | 1, Max up to 16GB                                                                                                                                 | 2, Max up to 32GB                                                                                                                                     | 1, Max up to 16GB                                                                                                                                       | N/A                                                                                                                                    |
|                                                                                                                                                                                                                                                                                  | On board Memory | N/A                                                                                                                                               | N/A                                                                                                                                                   | N/A                                                                                                                                                     | 2GB / 4GB                                                                                                                              |
| SSD storage                                                                                                                                                                                                                                                                      | mSATA           | YES                                                                                                                                               | Yes                                                                                                                                                   | Yes                                                                                                                                                     | YES                                                                                                                                    |
| VGA / DP                                                                                                                                                                                                                                                                         |                 | VGA                                                                                                                                               | N/A                                                                                                                                                   | VGA                                                                                                                                                     | VGA (internal)                                                                                                                         |
| eDP / LVDS / Touch Screen                                                                                                                                                                                                                                                        |                 | N/A                                                                                                                                               | eDP 1.4 2 Lanes                                                                                                                                       | N/A                                                                                                                                                     | N/A                                                                                                                                    |
| HDMI / DVI                                                                                                                                                                                                                                                                       |                 | 1 x HDMI                                                                                                                                          | 2 x HDMI                                                                                                                                              | N/A                                                                                                                                                     | N/A                                                                                                                                    |
| Ethernet                                                                                                                                                                                                                                                                         |                 | 5 x Intel GbE                                                                                                                                     | 5 x Intel GbE                                                                                                                                         | 3 x Intel GbE                                                                                                                                           | 3 x Intel GbE                                                                                                                          |
| Audio                                                                                                                                                                                                                                                                            |                 | Line-out / Mic-in (internal)                                                                                                                      | Line-out / Mic-in (internal)                                                                                                                          | N/A                                                                                                                                                     | N/A                                                                                                                                    |
| Mini-PCIe                                                                                                                                                                                                                                                                        | Slot 1          | (Full Size) PCIe / mSATA / USB                                                                                                                    | (Full Size) PCIe / mSATA / USB                                                                                                                        | (Full Size) PCIe / mSATA / USB                                                                                                                          | (Full Size) PCIe / USB / mSATA                                                                                                         |
|                                                                                                                                                                                                                                                                                  | Slot 2          | (Half Size) PCIe / mSATA / USB                                                                                                                    | (Full Size) PCIe / USB                                                                                                                                | (Full Size) PCIe / USB 3.0                                                                                                                              | N/A                                                                                                                                    |
| SIM Card Holder                                                                                                                                                                                                                                                                  |                 | 1                                                                                                                                                 | 1 (Nano SIM)                                                                                                                                          | N/A                                                                                                                                                     | Optional                                                                                                                               |
| SATA                                                                                                                                                                                                                                                                             |                 | 2                                                                                                                                                 | 2                                                                                                                                                     | 1                                                                                                                                                       | 1 x M.2 (B Key SATA) type 2242                                                                                                         |
| USB                                                                                                                                                                                                                                                                              |                 | 2 x USB 3.0<br>8 x USB 2.0                                                                                                                        | 4 x USB 3.0 (external)<br>3 x USB 2.0 (internal)                                                                                                      | 3 x USB 3.0 (external)<br>3 x USB 2.0 (internal)                                                                                                        | 1 x USB 3.0 (external)<br>3 x USB 2.0 (external)                                                                                       |
| Serial IO                                                                                                                                                                                                                                                                        |                 | 2 x RS232 / 422 / 485 (external + Internal)                                                                                                       | 2 x RS232 / 422 / 485 (internal)                                                                                                                      | 2 x RS232 / 422 / 485 (internal)                                                                                                                        | 2 x RS232 / 422 / 485 (internal)                                                                                                       |
| GPIO / WDT                                                                                                                                                                                                                                                                       |                 | 8DI / 8DO, WDT                                                                                                                                    | 4DI / DO, WDT                                                                                                                                         | 4DI / DO, WDT                                                                                                                                           | N/A                                                                                                                                    |
| PS2 KB/MS                                                                                                                                                                                                                                                                        |                 | YES (Internal)                                                                                                                                    | YES (Internal)                                                                                                                                        | N/A                                                                                                                                                     | N/A                                                                                                                                    |
| Power Input                                                                                                                                                                                                                                                                      |                 | Wide Range DC IN +9~+36V                                                                                                                          | Wide Range DC IN +9~36V                                                                                                                               | Wide Range DC IN +9~36V                                                                                                                                 | Wide Range DC IN +12~24V                                                                                                               |
| Expansion                                                                                                                                                                                                                                                                        |                 | GPS, 3G / 4G, Bluetooth, WI-FI, I/O                                                                                                               | LEX eIO: 1 x PCIe + USB                                                                                                                               | GPS, 3G / 4G, Bluetooth, WI-FI, I/O                                                                                                                     | GPS, IEEE1394, 3G / 4G, Bluetooth, WI-FI, I/O                                                                                          |
| Operating Temp.                                                                                                                                                                                                                                                                  |                 | -20°C ~ 70°C                                                                                                                                      | -20°C ~ 70°C                                                                                                                                          | -20°C ~ 70°C                                                                                                                                            | -20°C ~ 70°C                                                                                                                           |
| Chassis                                                                                                                                                                                                                                                                          |                 | BOX PC: TASK, SKY 3                                                                                                                               | BOX PC: TASK                                                                                                                                          | BOX PC: TERA                                                                                                                                            | BOX PC: NET-I                                                                                                                          |

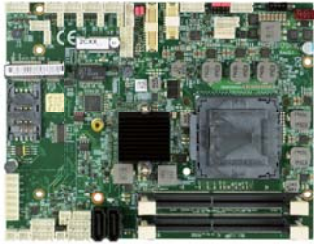
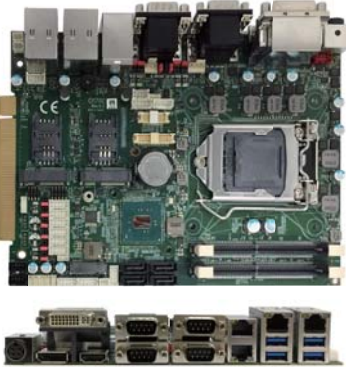
# Motherboard

|                           |                 | (102 x 73 mm)                                                                                            | (102 x 83 mm)                                                                                                                  | (90 x 55 mm)                                                                       | (102 x 83 mm)                                                                       |
|---------------------------|-----------------|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Application               |                 | Automation<br>• POS / KIOSK<br>• Networking<br>• Surveillance                                            | Automation<br>• POS / KIOSK<br>• Networking<br>• Surveillance                                                                  | Automation<br>• IPC                                                                | Automation<br>• IPC                                                                 |
| CPU Platform              |                 | Intel Apollo Lake<br>N4200 2.5 GHz (Quad Core)<br>N3350 2.4 GHz (Dual Core)<br>E3950 2.0 GHz (Quad Core) | Intel Bay Trail-I<br>E3825 1.33 GHz (Dual Core)<br>E3845 1.91 GHz (Quad Core)                                                  | Intel Bay Trail-I E3825<br>1.33 GHz (Dual Core)                                    | Intel Bay Trail-I<br>E3825 1.33 GHz (Dual Core)<br>E3845 1.91 GHz (Quad Core)       |
|                           |                 |                         |                                               |  |  |
| Model Name                |                 | 2I390CW                                                                                                  | 2I386EW                                                                                                                        | 1I386H                                                                             | 2I385BW                                                                             |
| Chipset                   |                 | Intel Apollo Lake<br>N4200 2.5 GHz (Quad Core)<br>N3350 2.4 GHz (Dual Core)<br>E3950 2.0 GHz (Quad Core) | Intel Bay Trail-I<br>E3825 1.33 GHz (Dual Core)<br>E3845 1.91 GHz (Quad Core)<br>Intel Bay Trail-D<br>J1900 2.0GHz (Quad Core) | Intel Bay Trail-I E3825<br>1.33 GHz (Dual Core)                                    | Intel Bay Trail-I<br>E3825 1.33 GHz (Dual Core)<br>E3845 1.91 GHz (Quad Core)       |
| Memory                    | Type / Capacity | DDR3L 1600 MHz                                                                                           | DDR3L 1333 MHz                                                                                                                 | DDR3L 1066MHz                                                                      | DDR3L 1066 / 1333 MHz                                                               |
|                           | SO-DIMM         | N/A                                                                                                      | 1, Max up to 8GB                                                                                                               | N/A                                                                                | N/A                                                                                 |
|                           | On board Memory | 4GB                                                                                                      | N/A                                                                                                                            | 2GB                                                                                | 2GB / 4GB                                                                           |
| SSD storage               | mSATA           | Yes                                                                                                      | Yes                                                                                                                            | Yes                                                                                | Yes                                                                                 |
| VGA / DP                  |                 | N/A                                                                                                      | VGA                                                                                                                            | VGA                                                                                | VGA (internal)                                                                      |
| eDP / LVDS / Touch Screen |                 | eDP                                                                                                      | N/A                                                                                                                            | eDP ; COM interface<br>Touch Screen controller                                     | LVDS or eDP ; COM interface<br>Touch Screen controller                              |
| HDMI / DVI                |                 | DVI, HDMI                                                                                                | N/A                                                                                                                            | N/A                                                                                | mini HDMI                                                                           |
| Ethernet                  |                 | Intel GbE x 2                                                                                            | Intel GbE x 2                                                                                                                  | Intel GbE x 1 (internal)                                                           | Intel GbE x 1 (internal)                                                            |
| Audio                     |                 | Line-out / Mic-in (internal)                                                                             | N/A                                                                                                                            | Line-out / Mic-in (internal)                                                       | Line-out / Mic-in (internal)                                                        |
| Mini-PCIe                 | Slot 1          | (Full Size) PCIe / mSATA / USB                                                                           | (Full Size) PCIe / USB                                                                                                         | (Full Size) PCIe / mSATA / USB                                                     | (Full Size) PCIe / mSATA / USB                                                      |
|                           | Slot 2          | (Half Size) mSATA / USB                                                                                  | (Full Size) mSATA / USB                                                                                                        | N/A                                                                                | N/A                                                                                 |
| SIM Card Holder           |                 | Optional                                                                                                 | Optional                                                                                                                       | N/A                                                                                | N/A                                                                                 |
| SATA                      |                 | 1                                                                                                        | 1                                                                                                                              | 1 x M.2 (B Key SATA) type 2242                                                     | 1 x M.2 (B Key SATA) type 2242                                                      |
| USB                       |                 | 2 x USB 3.0<br>(internal + external)<br>3 x USB 3.0<br>(external + 2 x internal)                         | 1 x USB 3.0 (external)<br>3 x USB 2.0<br>(external + 2 x internal)                                                             | 1 x USB 3.0 (internal)<br>2 x USB 2.0 (internal)                                   | 1 x USB 3.0 (internal)<br>2 x USB 2.0 (internal)                                    |
| Serial IO                 |                 | 2 x RS232 / 422 / 485<br>(internal)                                                                      | 4 x RS232<br>(1 x external RS232 / 422 / 485)<br>(1 x internal RS232 / 422 / 485)<br>2 x internal RS232                        | 1 x RS232                                                                          | 1 x RS232 / 422 / 485<br>(internal)                                                 |
| GPIO / WDT                |                 | 4DI / 4DO, WDT                                                                                           | 4DI / 4DO, WDT                                                                                                                 | 4DI / 4DO, WDT                                                                     | 4DI / 4DO, WDT                                                                      |
| PS2 KB/MS                 |                 | N/A                                                                                                      | N/A                                                                                                                            | N/A                                                                                | N/A                                                                                 |
| Power Input               |                 | Wide Range DC IN +9~36V                                                                                  | Wide Range DC IN +9~36V                                                                                                        | DC IN +12V                                                                         | Battery Charger, Wide Range<br>12~36V (Typical 12 / 24V)                            |
| Expansion                 |                 | LEX eIO: 2 x PCIe + USB                                                                                  | LEX eIO: 2 x PCIe + USB                                                                                                        | GPS, 3G / 4G, Bluetooth, WI-FI                                                     | GPS, 3G / 4G, Bluetooth, WI-FI                                                      |
| Operating Temp.           |                 | -20°C ~ 70°C                                                                                             | -20°C ~ 70°C                                                                                                                   | -20°C ~ 70°C                                                                       | -20°C ~ 70°C                                                                        |
| Chassis                   |                 | BOX PC: TERA                                                                                             | BOX PC: TERA                                                                                                                   | -                                                                                  | -                                                                                   |

# Motherboard

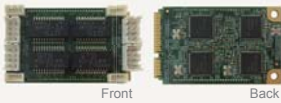
|                                                                                                                                                                                                                                                                              |                 | (156 x 125 mm)                                                                                                                                       | (200 x 125 mm)                                                                                                                                     | (156 x 125 mm)                                                                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application                                                                                                                                                                                                                                                                  |                 | Automation • POS/KIOSK<br>Networking • Surveillance                                                                                                  | Automation • POS/KIOSK<br>Networking • Surveillance                                                                                                | Automation • POS/KIOSK<br>Networking • Surveillance                                                                                                                                             |
| CPU Platform<br><br><br> |                 | Intel Skylake-U / Kaby Lake-U<br>i7 / i5 / i3 / Celeron SoC CPU<br> | Intel Skylake-S / Kaby Lake-S<br>i7 / i5 / i3 / Celeron CPU<br> | Intel Apollo Lake<br>N4200 2.5 GHz (Quad Core)<br>N3350 2.4 GHz (Dual Core)<br>E3950 2.0 GHz (Quad Core)<br> |
| Model Name                                                                                                                                                                                                                                                                   |                 | PM610DW                                                                                                                                              | PM170DW                                                                                                                                            | PM390CW                                                                                                                                                                                         |
| Chipset                                                                                                                                                                                                                                                                      |                 | Intel Skylake-U / Kaby Lake-U<br>i7 / i5 / i3 / Celeron SoC CPU                                                                                      | Intel® Q170                                                                                                                                        | Intel Apollo Lake<br>N4200 2.5 GHz (Quad Core)<br>N3350 2.4 GHz (Dual Core)<br>E3950 2.0 GHz (Quad Core)                                                                                        |
| Memory                                                                                                                                                                                                                                                                       | Type / Capacity | DDR4 2133MHz                                                                                                                                         | DDR4 2133MHz                                                                                                                                       | DDR3L 1600 MHz                                                                                                                                                                                  |
|                                                                                                                                                                                                                                                                              | SO-DIMM         | 2, max up to 32GB                                                                                                                                    | 2, Max up to 32GB                                                                                                                                  | 1, Max up to 8GB                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                              | On board Memory | N/A                                                                                                                                                  | N/A                                                                                                                                                | N/A                                                                                                                                                                                             |
| SSD storage                                                                                                                                                                                                                                                                  | mSATA           | YES                                                                                                                                                  | YES                                                                                                                                                | YES                                                                                                                                                                                             |
| VGA / DP                                                                                                                                                                                                                                                                     |                 | VGA                                                                                                                                                  | VGA                                                                                                                                                | VGA                                                                                                                                                                                             |
| eDP / LVDS / Touch Screen                                                                                                                                                                                                                                                    |                 | Dual Channel 24 bits LVDS ;<br>USB interface Touch Screen controller                                                                                 | Dual Channel 24 bits LVDS ;<br>USB interface Touch Screen controller                                                                               | 1.3 2 Lanes eDP ;<br>USB interface Touch Screen controller                                                                                                                                      |
| HDMI / DVI                                                                                                                                                                                                                                                                   |                 | HDMI                                                                                                                                                 | HDMI                                                                                                                                               | HDMI                                                                                                                                                                                            |
| Ethernet                                                                                                                                                                                                                                                                     |                 | 3 x Intel GbE (external)                                                                                                                             | 5 x Intel GbE (4 x external + 1 x internal)                                                                                                        | 2 x Intel GbE                                                                                                                                                                                   |
| Audio                                                                                                                                                                                                                                                                        |                 | Line-out / Mic-in (internal)                                                                                                                         | Line-out / Mic-in (internal)                                                                                                                       | Line-out / Mic-in (internal)                                                                                                                                                                    |
| Mini-PCIe                                                                                                                                                                                                                                                                    | Slot 1          | (Full Size) mSATA / USB                                                                                                                              | (Full Size) PCIe / mSATA / USB                                                                                                                     | (Full Size) PCIe / USB                                                                                                                                                                          |
|                                                                                                                                                                                                                                                                              | Slot 2          | (Full Size) PCIe / USB                                                                                                                               | (Full Size) PCIe / USB                                                                                                                             | (Full Size) PCIe / USB / mSATA                                                                                                                                                                  |
| PCIe                                                                                                                                                                                                                                                                         |                 | PCIe 8 x / 4 x / 1 x (PCIe x 4 + PCIe x 1 Signal)                                                                                                    | PCIe 16 x (PCIe x 16 + PCIe x 4 Signal)                                                                                                            | PCIe 8 x / 4 x / 1 x (PCIe x 4 + PCIe x 1 Signal)                                                                                                                                               |
| SIM Card Holder                                                                                                                                                                                                                                                              |                 | 1                                                                                                                                                    | 2                                                                                                                                                  | 1                                                                                                                                                                                               |
| SATA                                                                                                                                                                                                                                                                         |                 | 2                                                                                                                                                    | 4                                                                                                                                                  | 1                                                                                                                                                                                               |
| M.2                                                                                                                                                                                                                                                                          |                 | N/A                                                                                                                                                  | 1 x M.2 B Key Type 2242                                                                                                                            | 1 x M.2 B Key Type 2242                                                                                                                                                                         |
| USB                                                                                                                                                                                                                                                                          |                 | 4 x USB 3.0 (external)<br>3 x USB 2.0 (internal)                                                                                                     | 4 x USB 3.0 (external)<br>6 x USB 2.0 (internal)                                                                                                   | 2 x USB 3.0 (external)<br>3 x USB2.0 (2 x external + 1 x internal)                                                                                                                              |
| Serial IO                                                                                                                                                                                                                                                                    |                 | 2 x RS232 / 422 / 485<br>(external + internal)                                                                                                       | 4 x RS232 / 422 / 485<br>(1 x external + 3 x internal)                                                                                             | 5 x RS232 / 422 / 485<br>(1 x external + 4 x internal)                                                                                                                                          |
| GPIO / WDT                                                                                                                                                                                                                                                                   |                 | 8 DI / 8DO, WDT                                                                                                                                      | 16DI / 16DO, WDT                                                                                                                                   | 8DI / 8DO, WDT                                                                                                                                                                                  |
| PS2 KB/MS                                                                                                                                                                                                                                                                    |                 | YES (internal)                                                                                                                                       | YES (internal)                                                                                                                                     | YES (internal)                                                                                                                                                                                  |
| Power Input                                                                                                                                                                                                                                                                  |                 | Wide Range DC IN +9~36V                                                                                                                              | Wide Range DC IN +9~36V                                                                                                                            | Wide Range DC IN +9~36V                                                                                                                                                                         |
| Expansion                                                                                                                                                                                                                                                                    |                 | GPS, 3G / 4G, Bluetooth, WI-FI, I/O                                                                                                                  | GPS, 3G / 4G, Bluetooth, WI-FI, I/O                                                                                                                | GPS, 3G / 4G, Bluetooth, WI-FI                                                                                                                                                                  |
| Operating Temp.                                                                                                                                                                                                                                                              |                 | -20°C ~ 70°C                                                                                                                                         | -20°C ~ 70°C                                                                                                                                       | -20°C ~ 70°C                                                                                                                                                                                    |
| Chassis                                                                                                                                                                                                                                                                      |                 | BOX PC: APOLLO                                                                                                                                       | BOX PC: APOLLO                                                                                                                                     | BOX PC: APOLLO                                                                                                                                                                                  |

# Motherboard

|                                                                                                                                                                                        |                 | (160 x 122 mm)                                                                                                                                   | (200 x 150 mm)                                                                                                    | 3.5" (146 x 102 mm)                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application                                                                                                                                                                            |                 | Automation • POS/KIOSK<br>Networking • Surveillance                                                                                              | Automation • POS/KIOSK<br>Networking • Surveillance                                                               | Automation • POS/KIOSK<br>Networking • Surveillance                                                                                                                                      |
| CPU Platform<br><br> |                 | Intel Skylake-S / Kaby Lake-S<br>i7 / i5 / i3 / Celeron CPU<br> | Intel 6th Core I processors<br> | Intel Bay Trail-I<br>E3845 1.91 GHz (Quad Core)<br>Intel Bay Trail-D<br>J1900 2.0 GHz (Quad Core)<br> |
| Model Name                                                                                                                                                                             |                 | 3I170HW                                                                                                                                          | CI170C                                                                                                            | 3I385AW                                                                                                                                                                                  |
| Chipset                                                                                                                                                                                |                 | Intel® Q170                                                                                                                                      | Intel® Q170                                                                                                       | Intel Bay Trail-I<br>E3845 1.91 GHz (Quad Core)<br>Intel Bay Trail-D<br>J1900 2.0 GHz (Quad Core)                                                                                        |
| Memory                                                                                                                                                                                 | Type / Capacity | DDR4 2133MHz                                                                                                                                     | DDR4 2133MHz                                                                                                      | DDR3L 1333MHz                                                                                                                                                                            |
|                                                                                                                                                                                        | SO-DIMM         | 2, Max up to 32GB                                                                                                                                | 2, Max up to 32GB                                                                                                 | 1, Max up to 8GB                                                                                                                                                                         |
|                                                                                                                                                                                        | On board Memory | N/A                                                                                                                                              | N/A                                                                                                               | N/A                                                                                                                                                                                      |
| SSD storage                                                                                                                                                                            | mSATA           | YES                                                                                                                                              | YES                                                                                                               | YES                                                                                                                                                                                      |
| VGA / DP                                                                                                                                                                               |                 | VGA                                                                                                                                              | 1 x DP                                                                                                            | VGA                                                                                                                                                                                      |
| eDP / LVDS / Touch Screen                                                                                                                                                              |                 | Single / Dual Channel 24 / bits LVDS<br>USB interface Touch Screen controller                                                                    | Single / Dual Channel 24 / 48 bits LVDS or eDP ;<br>USB interface Touch Screen controller                         | optional                                                                                                                                                                                 |
| HDMI / DVI                                                                                                                                                                             |                 | 1 x HDMI                                                                                                                                         | 1 x HDMI, 1 x DVI                                                                                                 | DVI                                                                                                                                                                                      |
| Ethernet                                                                                                                                                                               |                 | 5 x Intel GbE (internal)                                                                                                                         | 4 x Intel GbE (external), 1 x Intel GbE (internal)                                                                | 2 x Intel GbE (external)                                                                                                                                                                 |
| Audio                                                                                                                                                                                  |                 | Line-out / Mic-in (internal)                                                                                                                     | Line-out / Mic-in (internal)                                                                                      | Line-out / Mic-in (internal)-optional                                                                                                                                                    |
| Mini-PCle                                                                                                                                                                              | Slot 1          | (Full Size) PCIe / mSATA / USB                                                                                                                   | (Full Size) PCIe / mSATA / USB                                                                                    | (Full Size) PCIe / mSATA / USB                                                                                                                                                           |
|                                                                                                                                                                                        | Slot 2          | N/A                                                                                                                                              | (Full Size) PCIe / USB                                                                                            | (Full Size) PCIe / USB                                                                                                                                                                   |
| PCIe                                                                                                                                                                                   |                 | N/A                                                                                                                                              | PCIe 16x / 8 x / 4x / 1x                                                                                          | N/A                                                                                                                                                                                      |
| SIM Card Holder                                                                                                                                                                        |                 | 1                                                                                                                                                | 2                                                                                                                 | 1                                                                                                                                                                                        |
| SATA                                                                                                                                                                                   |                 | 2                                                                                                                                                | 4                                                                                                                 | 1                                                                                                                                                                                        |
| M.2                                                                                                                                                                                    |                 | 1 x M.2 (B Key SATA / PCIe storage, Type 2242)                                                                                                   | 1 x M.2 (B Key SATA / PCIe storage, Type 2242)                                                                    | N/A                                                                                                                                                                                      |
| USB                                                                                                                                                                                    |                 | 2 x USB 3.0 (internal)<br>7 x USB 2.0 (internal)                                                                                                 | 4 x USB 3.0 (external)<br>5 x USB 2.0 (internal)                                                                  | 4 x USB 3.0 (external)<br>1 x USB 2.0 (internal)                                                                                                                                         |
| Serial IO                                                                                                                                                                              |                 | 2 x RS232 / 422 / 485 (internal)                                                                                                                 | 10 x RS232 / 422 / 485<br>(4 x external + 6 x internal)                                                           | 6 x RS232 / 422 / 485<br>(4 x external + 2 x internal)                                                                                                                                   |
| GPIO / WDT                                                                                                                                                                             |                 | 8 DI / 8DO, WDT                                                                                                                                  | 8DI / 8DO, WDT                                                                                                    | 8DI / 8DO, WDT                                                                                                                                                                           |
| PS2 KB/MS                                                                                                                                                                              |                 | YES (internal)                                                                                                                                   | YES (internal)                                                                                                    | YES (internal)                                                                                                                                                                           |
| Power Input                                                                                                                                                                            |                 | Wide Range DC IN +9~36V                                                                                                                          | DC IN +12V                                                                                                        | Wide Range DC IN +9~36V                                                                                                                                                                  |
| Expansion                                                                                                                                                                              |                 | GPS, 3G / 4G, Bluetooth, WI-FI, I/O                                                                                                              | GPS, 3G / 4G, Bluetooth, WI-FI, I/O                                                                               | GPS, 3G / 4G, Bluetooth, WI-FI                                                                                                                                                           |
| Operating Temp.                                                                                                                                                                        |                 | -20°C ~ 70°C                                                                                                                                     | -20°C ~ 70°C                                                                                                      | -20°C ~ 70°C                                                                                                                                                                             |
| Chassis                                                                                                                                                                                |                 | -                                                                                                                                                | BOX PC: TINO, TWISTER, 1U: Panel PC                                                                               | BOX PC: TASK, DIN-Rail System                                                                                                                                                            |

# Accessory

## PoE extension module

| Interface      | Model Name |                                                                                                 | Function                 | Dimensions   | Spec.                                                                                                                                                                                                                                                            |
|----------------|------------|-------------------------------------------------------------------------------------------------|--------------------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mini PCIe Card | M214A      | <br>Front Back | LAN extension card       | 50.95 x 30mm | <ul style="list-style-type: none"> <li>Mini PCIe Card-4 x LAN extension card</li> <li>Intel I210IT LAN chip</li> <li>Support 4 Giga bit/s LAN</li> <li>Full Duplex Flow Control</li> <li>Application for four LAN or LAN by pass or LAN PSE solution.</li> </ul> |
| Mini PCIe Card | PW353      |                | 4 x PoE OUT board (RJ45) | 102 x 35mm   | <ul style="list-style-type: none"> <li>Input voltage: +9V to +36V (Typical DC 12V or DC 24V Input, DC Range DC +12V (±5%), +24V (±5%))</li> <li>Output voltage: +52V</li> <li>Compliant IEEE802.3 af up to 15.4W</li> <li>Support 4 pairs only</li> </ul>        |
| Mini PCIe Card | PW354      |                | 4 x PoE OUT board (M12)  | 102 x 35mm   | <ul style="list-style-type: none"> <li>Input voltage: +9V to +36V (Typical DC 12V or DC 24V Input, DC Range DC +12V (±5%), +24V (±5%))</li> <li>Output voltage: +52V</li> <li>Compliant IEEE802.3 af up to 15.4W</li> <li>Support 4 pairs only</li> </ul>        |



M214A

+

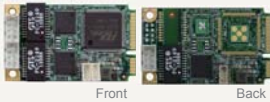


PW353

or



PW354

| Interface      | Model Name |                                                                                                   | Function           | Dimensions   | Spec.                                                                                                                                                                                                                                                     |
|----------------|------------|---------------------------------------------------------------------------------------------------|--------------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mini PCIe Card | M212A      | <br>Front Back | LAN extension card | 50.95 x 30mm | <ul style="list-style-type: none"> <li>Mini PCIe Card-1~2 x LAN extension card</li> <li>Intel I210IT LAN chip</li> <li>Support 1~2 Giga bit/s LAN</li> <li>Full Duplex Flow Control</li> <li>Work with CL001 / CL002</li> </ul>                           |
| Mini PCIe Card | PW352      | <br>M12 RJ45   | 2 x PoE OUT board  | 72 x 35mm    | <ul style="list-style-type: none"> <li>Input voltage: +9V to +36V (Typical DC 12V or DC 24V Input, DC Range DC +12V (±5%), +24V (±5%))</li> <li>Output voltage: +52V</li> <li>Compliant IEEE802.3 af up to 15.4W</li> <li>Support 2 pairs only</li> </ul> |



M212A

+



PW352-M12

or



PW352-RJ45

## Add on Card

| Interface | Model Name |                                                                                     | Function                | Dimensions   | Spec.                                                                                                                                                                                                                                                                                                |
|-----------|------------|-------------------------------------------------------------------------------------|-------------------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PCIe Card | E691A      |  | 4 Ports PoE 802.3 AF    | 120 x 101 mm | <ul style="list-style-type: none"> <li>Support PCIe x 1</li> <li>4 x LAN IntelI210 (IT), PoE PSE Compliant IEEE 802.3 af</li> </ul>                                                                                                                                                                  |
| PCIe Card | E244P      |  | 4 Ports PoE 802.3 AF/AT | 120 x 101 mm | <ul style="list-style-type: none"> <li>Support PCIe x 4</li> <li>4 x LAN IntelI210 (IT), PoE PSE Compliant IEEE 802.3 af / at</li> </ul>                                                                                                                                                             |
| PCIe Card | E617A      |  | 4-Ports PoE 802.3 AF    | 120 x 101 mm | <ul style="list-style-type: none"> <li>4 x 10 / 100 / 1000 BaseT (X) 802.3af PoE (Power Over Ethernet) ports</li> <li>Powered Device (PD) auto detection and classification</li> <li>Input: 12V DC input power input</li> <li>Output PoE Power: Supports 4 PoE port up to 15.4W at 48V DC</li> </ul> |

# Accessory

## Add on Card

| Interface | Model Name |                                                                                   | Function           | Dimensions   | Spec.                                                                                                              |
|-----------|------------|-----------------------------------------------------------------------------------|--------------------|--------------|--------------------------------------------------------------------------------------------------------------------|
| PCIe Card | E550A      |  | LAN extension Card | 150 x 76mm   | <ul style="list-style-type: none"> <li>• Support PCIe x 4</li> <li>• 2 x 10GbE LAN (Intel X550 Chipset)</li> </ul> |
| PCIe Card | E142U      |  | USB extension Card | 76 x 79.3 mm | <ul style="list-style-type: none"> <li>• Support PCIe x 4</li> <li>• 2 x 2 USB 3.1 Type A ports</li> </ul>         |

## Special IP / PoE expansion

| Interface | Model Name |                                                                                     | Function                       | Dimensions | Spec.                                                                                                                                                                                                                               |
|-----------|------------|-------------------------------------------------------------------------------------|--------------------------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LEX eIO   | L2L001     |    | LAN extension card             | 102 x 73mm | <ul style="list-style-type: none"> <li>• 5 PCIe Giga LAN</li> <li>• Intel I210-IT / I211-AT</li> <li>• 1 Mini PCI Express socket.</li> <li>• USB</li> <li>• SIM-Push-Push</li> </ul>                                                |
| LEX eIO   | L2L002     |  | LAN & Fiber extension card     | 102 x 73mm | <ul style="list-style-type: none"> <li>• 4 PCIe Giga LAN</li> <li>• Intel I210-IT / I211-AT</li> <li>• 1 port 1000Base-SX Fiber.</li> <li>• 1 Mini PCI Express socket.</li> <li>• USB</li> <li>• SIM-Push-Push</li> </ul>           |
| LEX eIO   | L2L003     |  | PoE LAN & Fiber extension card | 102 x 73mm | <ul style="list-style-type: none"> <li>• 4 x PoE Giga LAN Switch,</li> <li>• 1 x Fiber LAN</li> <li>• Power: Wide Range +9V~+36V</li> </ul>                                                                                         |
| LEX eIO   | L2L004     |  | PoE LAN extension card         | 102 x 73mm | <ul style="list-style-type: none"> <li>• 2 x PoE Giga LAN M12 type,</li> <li>• 1 x Fiber LAN (Optional)</li> <li>• 1 x Full Size Mini card USB interface</li> <li>• 1 x SIM socket</li> <li>• Power: Wide Range +9V~+36V</li> </ul> |

## LEX Backplanes

| Interface      | Model Name |                                                                                     | Function   | Dimensions  | Spec.                                                                                                                                                    |
|----------------|------------|-------------------------------------------------------------------------------------|------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| LEX Backplanes | BPM001     |  | Backplanes | 78 x 176 mm | <ul style="list-style-type: none"> <li>• 2-slot: PCIe x 16 + PCIe x 4 (PCIe x 16 / x 8 to PCIe x 16 + PCIe x 4)</li> <li>• work with PM170DW</li> </ul>  |
| LEX Backplanes | BPM002     |  | Backplanes | 78 x 176 mm | <ul style="list-style-type: none"> <li>• 2-slot: PCIe x 1 + PCIe x 4 (PCIe x 8 to PCIe x 1 + PCIe x 4)</li> <li>• work with PM610DW / PM390CW</li> </ul> |

Release data: Oct. 18. 2018

