

# IMB-1011J-WV

Mini-ITX Motherboard



## KEY FEATURES

- Intel® Alder Lake-N Processors
- 1 x 262-pin SO-DIMM DDR5 4800 MHz, up to 32GB
- 1 x PCIe x1 (Gen3), 3 x USB 3.2 Gen2, 4 x USB 2.0, 1 x M.2 Key E, 1 x M.2 Key M, 6 x COM, 1 x SATA3
- 2 x Realtek 1 Gigabit LAN
- Supports Triple display, 2 x HDMI 2.0b, 1 x VGA, 1 x LVDS or eDP
- Supports Intel® MIPI CSI2
- ATX-PWR (24+4-pin) and 9~28V DC-In co-design

## SPECIFICATIONS

### Form Factor

Dimensions(LxWxH)	Mini-ITX (6.7-in x 6.7-in x 1.6-in, 17.0 cm x 17.0 cm x 4.1 cm)
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### Processor System

CPU	Intel® Alder Lake-N Processors IMB-1011J-WV (N97, QC, Max Speed Up to 3.6GHz, 12W) *For other CPU SKUs request, please contact regional Sales for availability
BIOS	AMI SPI 256 Mbit

### Memory

Technology	Single Channel DDR5 4800 MHz
Capacity	32GB
Socket	1 x 262-pin SO-DIMM

### Graphics

Controller	Intel® UHD Graphics
HDMI	HDMI 2.0b Max resolution up to 4096 x 2160@60Hz
VGA	Max resolution up to 1920 x 1200@60Hz
LVDS	Dual channel 24 bit up to 1920 x 1200@60Hz (Connector shared with eDP)
eDP	Max resolution up to 1920 x 1080@60Hz (Connector shared with LVDS)
MultiDisplay	Triple display

### Expansion Slot

PCIe	1 x PCIe x1 (Gen3)
M.2	1 x M.2 (Key E, 2230) with PCIe Gen3 x1, USB 2.0 and CNVi for Wireless

### Audio

Interface	Realtek ALC256 HD, High Definition Audio
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### Ethernet

Controller/ Speed	LAN1: Realtek RTL8111H with 10/100/1000 Mbps LAN2: Realtek RTL8111H with 10/100/1000 Mbps
Connector	2 x RJ-45

### Rear I/O

HDMI	2 x HDMI 2.0b
VGA	1
Ethernet	2 x 1 Gigabit LAN
USB	2 x USB 3.2 Gen2 2 x USB 2.0
Audio	2 (Mic-In, Line-Out)
DC Jack	COM1 (RS-232/422/485) COM2, COM3 (RS-232)

### Internal Connector

USB	1 x USB 3.2 Gen2 (Type-A vertical con) 2 x USB 2.0 (1 x 2.54 pitch header)
COM	COM4, COM5, COM6 (RS-232)
GPIO	4 x GPI, 4 x GPO
LVDS	1 (Connector with LVDS/eDP signal, switch by BIOS)
SATA PWR Output	1
Speaker Header	1
MIPI Camera Header	1 (MIPI CSI2)

### Storage

M.2	1 x M.2 (Key M, 2280/3052) with PCIe Gen3 x1 and SATA3 for SSD
SATA	1 x SATA3 (6Gb/s)

### Security

TPM	TPM Header Intel® PTT
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### Watchdog Timer

Output	From Super I/O to drag RESETCON#
Interval	256 Segments, 0, 1, 2, ...255sec

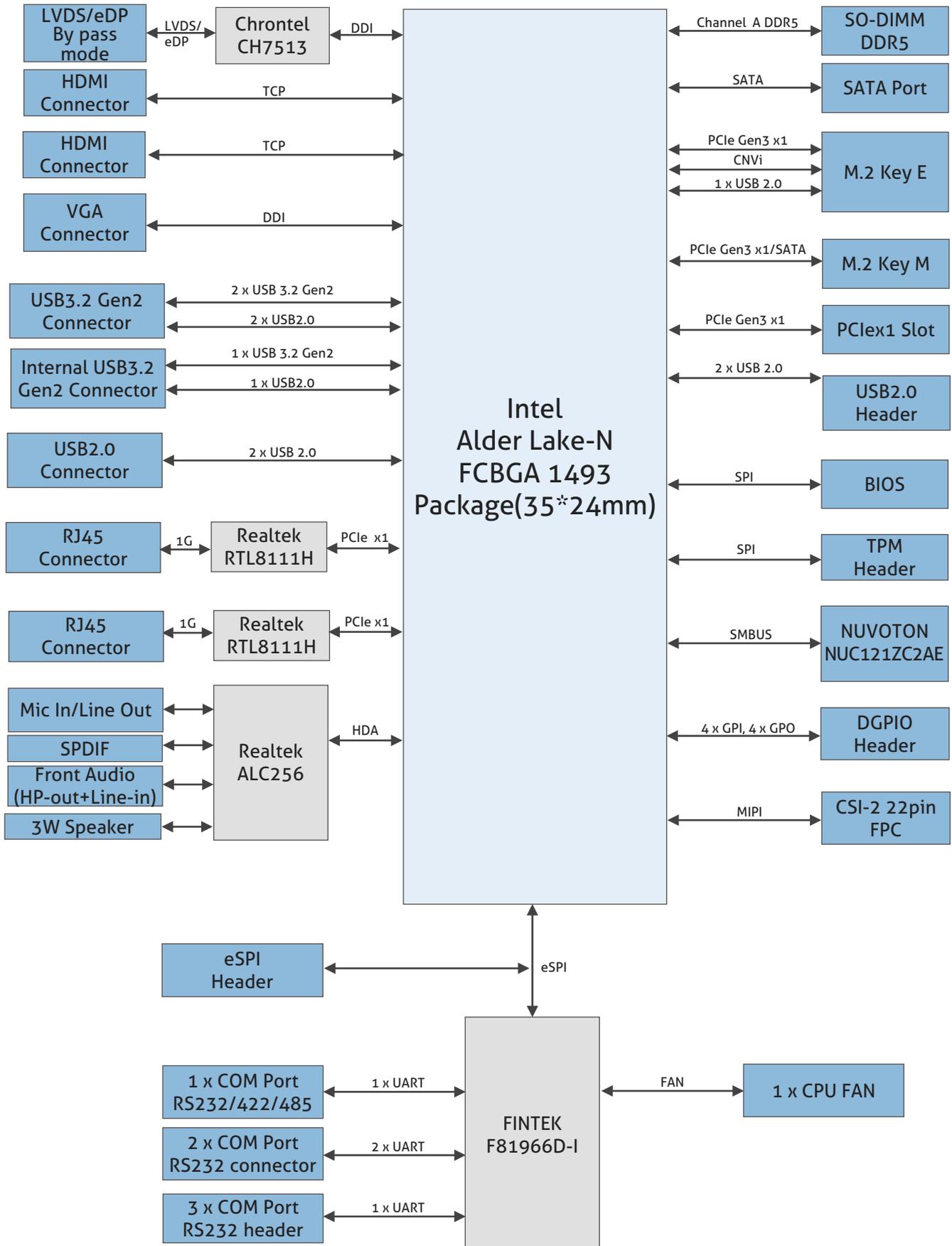
### Power Requirements

Input PWR	ATX-PWR (24+4-pin) and 9~28V DC-In co-design
Power On	AT/ATX Supported - AT : Directly PWR on as power input ready - ATX : Press button to PWR on after power input ready

### Environment

Operating Temp	-20°C ~ 70°C
Storage Temp	-40° C ~ 85° C
Operating Humidity	5% ~ 90%
Storage Humidity	5% ~ 90%

BLOCK DIAGRAM



### Ordering Information

Model	IMB-1011J-WV
CPU	N97
HDMI	2
VGA	1
LVDS/eDP	1/(1)
1 Gbe LAN	2
COM	6
USB 3.2	3
USB 2.0	4
SATA III	1
M.2 E-Key	1
M.2 M-Key	1
TPM	FW TPM

### Packing List (Bulk)

Description	Quantity
I/O Shield	1
SCREW M3*2.5	2

### I/O View



### Packing List (Gift)

Description	Quantity
SATA Power Cable	1
SATA Data Cable	1
I/O Shield	1
SCREW M3*2.5	2