

OMNI-3125-ADP

12.1" Modular HMI Panel PC with 12th Generation Intel® Core™/Celeron® Processors

Front View

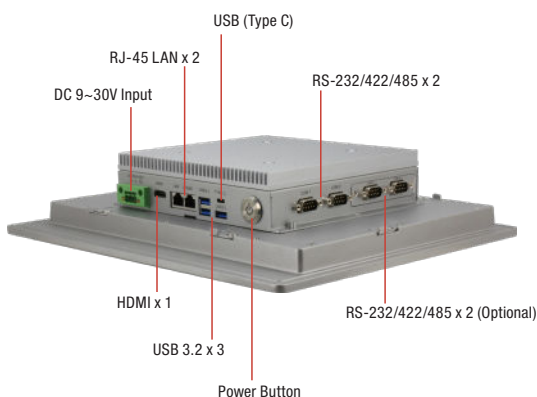


Top View



Antenna Hole x 2

Bottom View



Features

- 12.1" (1024 x 768) TFT LCD Display
- Intel® Alder Lake-P i7/i5/i3/Celeron CPU (max. 15W TDP)
- P-CAP or Resistive Touch Screen Support
- M.2 2280 M-Key x 1 (PCIe [x4] NVMe Storage)
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation
- VESA Mount/ Built-in Panel Mount Bracket
- 9-30V DC in a wide range of input



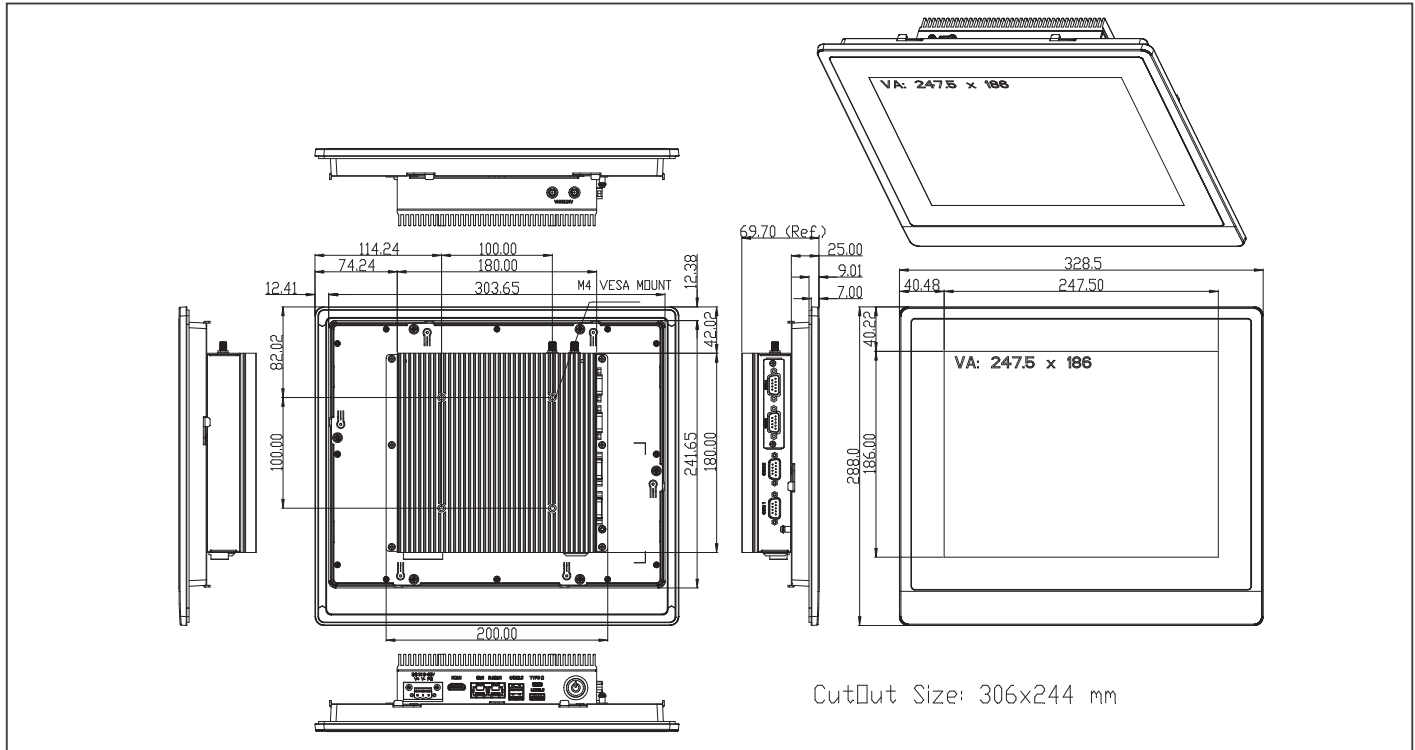
Specifications

System	
Processor	12th Generation Intel® Core™/Celeron® Processors
System Memory	DDR5 4800 MHz, Dual Channel SODIMM x 2
LCD/CRT Controller	—
Ethernet	Intel® Ethernet Connection I219, 10/100/1000Base Intel® Ethernet Controller I226, 10/100/1000/2500Base
I/O Port	RJ-45 LAN x 2 USB 3.2 Gen 2 (Type-A) x 3 USB (Type-C) x 1 HDMI 2.0b x 1 DB-9 x 2 (RS-232/422/485)
Storage Disk Drive	2.5" HDD Bay for SATA 6Gb/s x 1 M.2 2280 M-Key x 1 (PCIe [x4] NVMe Storage)
Expansion Slot	M.2 3052 B-Key x 1 (BOM Optional: PCIe [x2], default: USB 3.2 Gen 2 + SATA) M.2 2230 E-Key x 1 (PCIe, USB 2.0)
OS support	Windows® 10 IoT Enterprise LTSC 2021 Windows® 10/11
Mechanical	
Construction	Aluminum Front Bezel + Metal Chassis
Mounting	VESA / Panel Mount
Dimension	12.9" x 11.3" x 2.7" (328.5mm x 288mm x 69.7mm)
Carton Dimension	20.9" x 17.5" x 7.9" (530mm x 445mm x 200mm)
Gross Weight	7.6 lb. (3.48Kg)
Environmental	
Operating Temperature	-4°F~-122°F (-20°C~50°C) with airflow
Storage Temperature	-4°F~-140°F (-20°C~60°C)
Storage Humidity	90% @40°C; non-condensing
Vibration	1Grms / 5~ 500Hz / operation
Shock	15 G peak acceleration (11 msec. duration)
EMC	CE/FCC Class A Compatible
Power Supply	
DC input	DC 9~30V
LCD	
Display Type	12.1" TFT-LCD, LED
Max Resolution	1024(H) x 768(V)
Max. Colors	16.2M colors
Luminance	500 cd/m²
Viewing Angle	160° (H) ; 160° (V)
Back Light	LED
Back Light MTBF (Hours)	50,000 Hrs
Touchscreen	
Type	P-CAP/ 5-wire resistive
Light Transmission	P-CAP (90% ± 3%), 5-wire Resistive (80% ± 3%)

Note: All specifications are subject to change without notice.

Dimension

Unit: mm



Packing List

- Phoenix Power Connector
- OMNI-3125-ADP
- Screws

Optional Accessories

- **AP-OT9789LA1000**
LA-100 LCD Monitor Stand
- **170X000799**
Power Cord (US Type)
- **170X000800**
Power Cord (European Type)
- **170X000803**
Power Cord (Japanese Type)
- **1255X00059**
19V 120W Power Adapter
- **9651MNAD02**
USB 2.0 x 2 (Expansion I/O Module)
- **9651MNAD01**
RS-232/422/485 x 2 (Expansion I/O Module)

Ordering Information

Part Number	Display Type	Max Resolution	Luminance	View Angle	CPU	LAN	USB	RS-232/422/485	Storage	RAM	Display	Internal Expansion	Mounting	Power	Operating Temp.	Touch
OMNI-3125HTT-ADP-A1-1010	12.1" TFT LCD	1024 x 768	500 cd/m ²	160°(H) / 160°(V)	Intel® Celeron® Processor 7305E	2	USB 3.2 Gen2 (Type A) x3 USB 2.0 x1 (Type C)	2	2.5" SATA-III x1 M.2 2280 M-Key x1 (PCIe[x4] for NVMe Storage)	DDR5, up to 64GB	HDMI x1	M.2 3052 B Key x1 (Default: USB 3.2Gen 2 + SATA, PCIe[x2] optional by BOM) M.2 2230 E-Key x1 (PCIe, USB 2.0)	VESA / Panel Mount	DC 9~30V	-20°~50°C with air flow	Resistive Touch
OMNI-3125HTT-ADP-A2-1010	12.1" TFT LCD	1024 x 768	500 cd/m ²	160°(H) / 160°(V)	Intel® Core™ i3-1215UE	2	USB 3.2 Gen2 (Type A) x3 USB 2.0 x1 (Type C)	2	2.5" SATA-III x1 M.2 2280 M-Key x1 (PCIe[x4] for NVMe Storage)	DDR5, up to 64GB	HDMI x1	M.2 3052 B Key x1 (Default: USB 3.2Gen 2 + SATA, PCIe[x2] optional by BOM) M.2 2230 E-Key x1 (PCIe, USB 2.0)	VESA / Panel Mount	DC 9~30V	-20°~50°C with air flow	Resistive Touch
OMNI-3125HTT-ADP-A3-1010	12.1" TFT LCD	1024 x 768	500 cd/m ²	160°(H) / 160°(V)	Intel® Core™ i5-1245UE	2	USB 3.2 Gen2 (Type A) x3 USB 2.0 x1 (Type C)	2	2.5" SATA-III x1 M.2 2280 M-Key x1 (PCIe[x4] for NVMe Storage)	DDR5, up to 64GB	HDMI x1	M.2 3052 B Key x1 (Default: USB 3.2Gen 2 + SATA, PCIe[x2] optional by BOM) M.2 2230 E-Key x1 (PCIe, USB 2.0)	VESA / Panel Mount	DC 9~30V	-20°~50°C with air flow	Resistive Touch
OMNI-3125HTT-ADP-A5-1010	12.1" TFT LCD	1024 x 768	500 cd/m ²	160°(H) / 160°(V)	Intel® Celeron® Processor 7305E	2	USB 3.2 Gen2 (Type A) x3 USB 2.0 x1 (Type C)	2	2.5" SATA-III x1 M.2 2280 M-Key x1 (PCIe[x4] for NVMe Storage)	DDR5, up to 64GB	HDMI x1	M.2 3052 B Key x1 (Default: USB 3.2Gen 2 + SATA, PCIe[x2] optional by BOM) M.2 2230 E-Key x1 (PCIe, USB 2.0)	VESA / Panel Mount	DC 9~30V	-20°~50°C with air flow	Projective Touch
OMNI-3125HTT-ADP-A6-1010	12.1" TFT LCD	1024 x 768	500 cd/m ²	160°(H) / 160°(V)	Intel® Core™ i3-1215UE	2	USB 3.2 Gen2 (Type A) x3 USB 2.0 x1 (Type C)	2	2.5" SATA-III x1 M.2 2280 M-Key x1 (PCIe[x4] for NVMe Storage)	DDR5, up to 64GB	HDMI x1	M.2 3052 B Key x1 (Default: USB 3.2Gen 2 + SATA, PCIe[x2] optional by BOM) M.2 2230 E-Key x1 (PCIe, USB 2.0)	VESA / Panel Mount	DC 9~30V	-20°~50°C with air flow	Projective Touch
OMNI-3125HTT-ADP-A7-1010	12.1" TFT LCD	1024 x 768	500 cd/m ²	160°(H) / 160°(V)	Intel® Core™ i5-1245UE	2	USB 3.2 Gen2 (Type A) x3 USB 2.0 x1 (Type C)	2	2.5" SATA-III x1 M.2 2280 M-Key x1 (PCIe[x4] for NVMe Storage)	DDR5, up to 64GB	HDMI x1	M.2 3052 B Key x1 (Default: USB 3.2Gen 2 + SATA, PCIe[x2] optional by BOM) M.2 2230 E-Key x1 (PCIe, USB 2.0)	VESA / Panel Mount	DC 9~30V	-20°~50°C with air flow	Projective Touch