

OMNI-3105-ADP

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

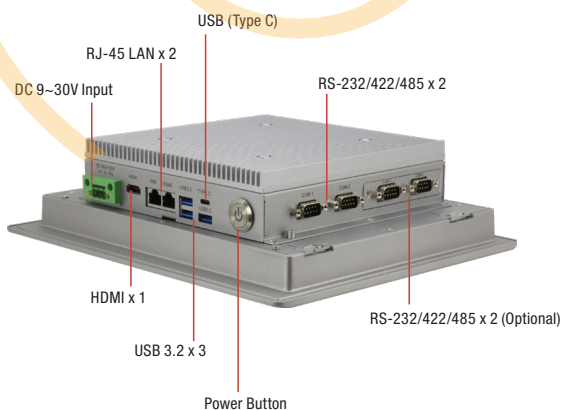
Front View



Top View



Bottom View



Features

- 10.4" (1024 x 768) TFT LCD Display
- 12th Generation Intel® Core™/Celeron® Processors (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

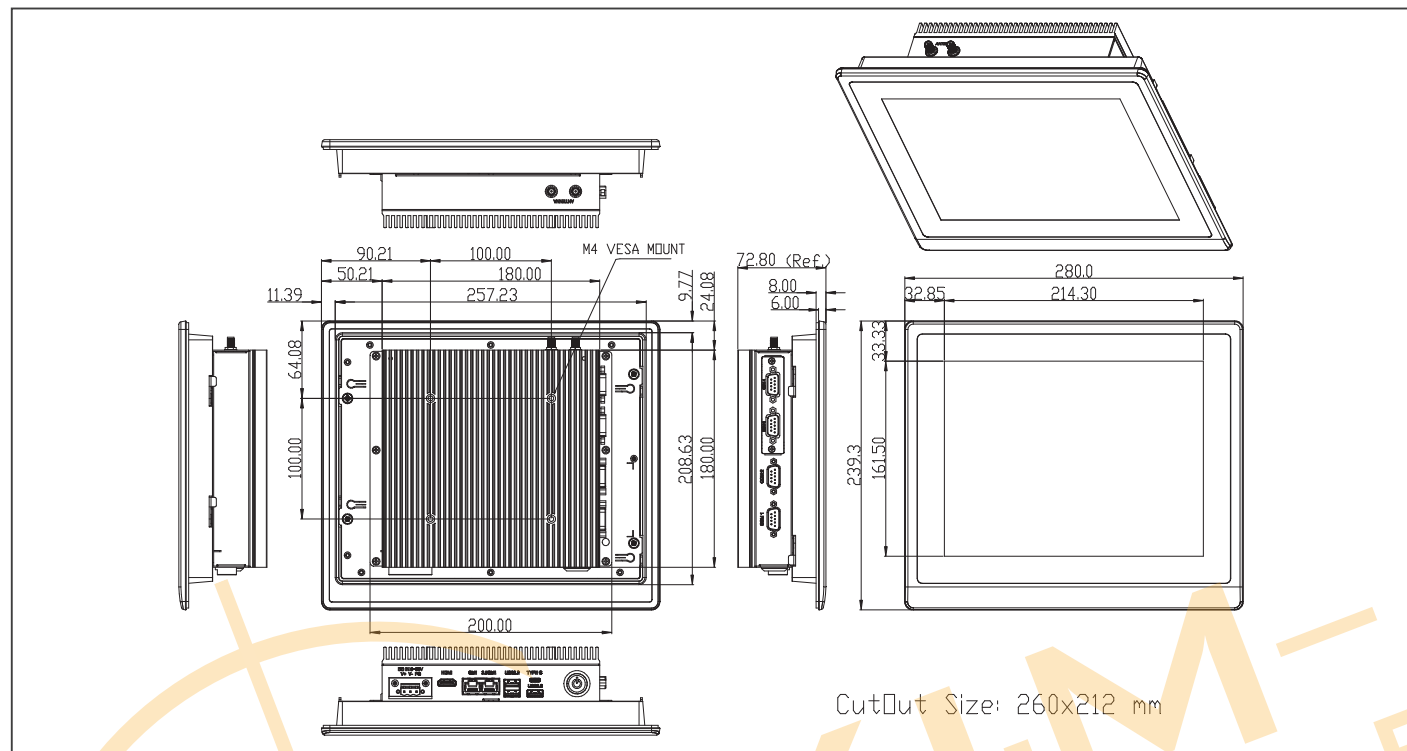


Specifications

System	
Processor	12th Generation Intel® Core™/Celeron® Processors
System Memory	DDR5 4800MHz, 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	11" x 9.4" x 2.8" (280mm x 239.3mm x 72.8mm)
Carton Dimension	16.3" x 15.4" x 7" (415mm x 392mm x 180mm)
Gross Weight	6.2 lb. (2.84Kg)
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	10.4" TFT-LCD, LED
Max Resolution	1024 (H) x 768 (V)
Max. Colors	262K/16.7M
Luminance	500 cd/m ²
Viewing Angle	176° (H) x 176° (V)
Back Light	LED
Back Light MTBF (Hours)	50,000
Touchscreen	
Type	P-CAP/ 5-wire resistive
Light Transmission	P-CAP (90% ± 3%), 5-wire Resistive (80% ± 3%)

Dimension

Unit: mm

**Packing List**

- Phoenix Power Connector
- OMNI-3105-ADP
- Screws

Optional Accessories

- **AP-0T9789LA1000**
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-3105HTT-ADP-A1-1010	10.4" TFT LCD	1024 x 768	500 cd/m²	176° (H) x 176° (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-3105HTT-ADP-A2-1010	10.4" TFT LCD	1024 x 768	500 cd/m²	176° (H) x 176° (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-3105HTT-ADP-A3-1010	10.4" TFT LCD	1024 x 768	500 cd/m²	176° (H) x 176° (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-3105HTT-ADP-A5-1010	10.4" TFT LCD	1024 x 768	500 cd/m²	176° (H) x 176° (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-3105HTT-ADP-A6-1010	10.4" TFT LCD	1024 x 768	500 cd/m²	176° (H) x 176° (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-3105HTT-ADP-A7-1010	10.4" TFT LCD	1024 x 768	500 cd/m²	176° (H) x 176° (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

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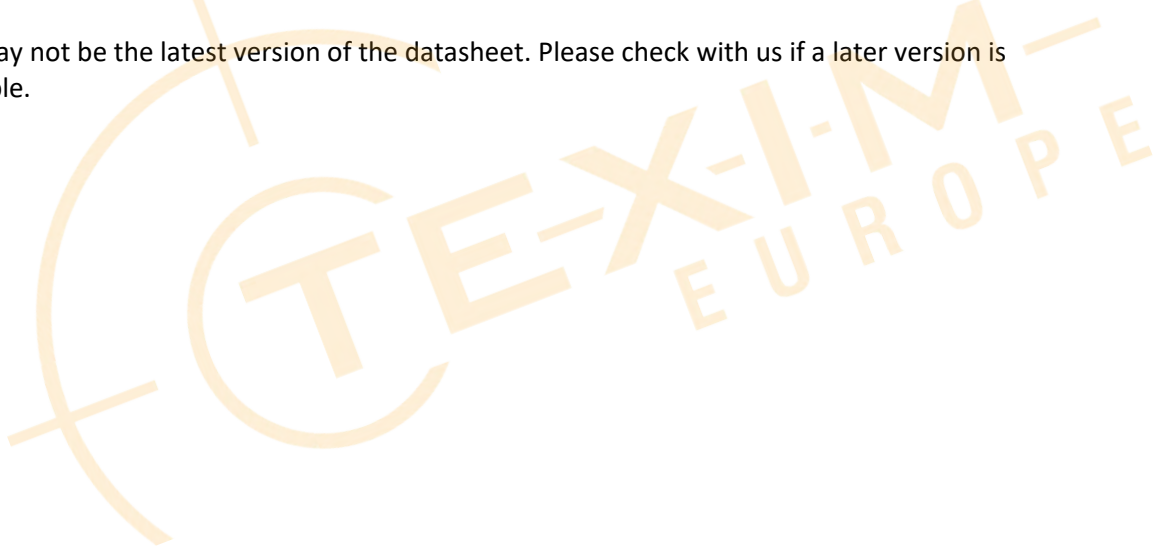
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Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time.

All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.

Please contact us if you have any questions about the contents of the datasheet.

This may not be the latest version of the datasheet. Please check with us if a later version is available.





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