

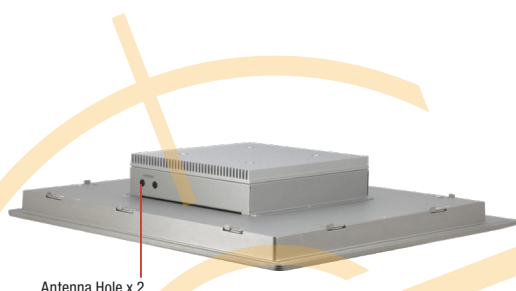
OMNI-3175-ADP

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

Front View

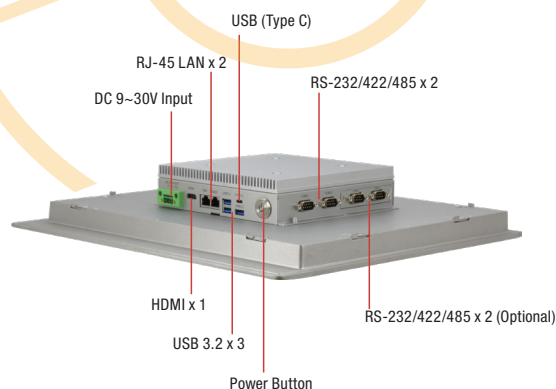


Top View



Antenna Hole x 2

Bottom View



USB (Type C)

RJ-45 LAN x 2

DC 9~30V Input

RS-232/422/485 x 2

HDMI x 1

USB 3.2 x 3

Power Button

RS-232/422/485 x 2 (Optional)

Features

- 17" (1280 x 1024) TFT LCD Display
- 12th Generation Intel® Core™/Celeron® Processors
- 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



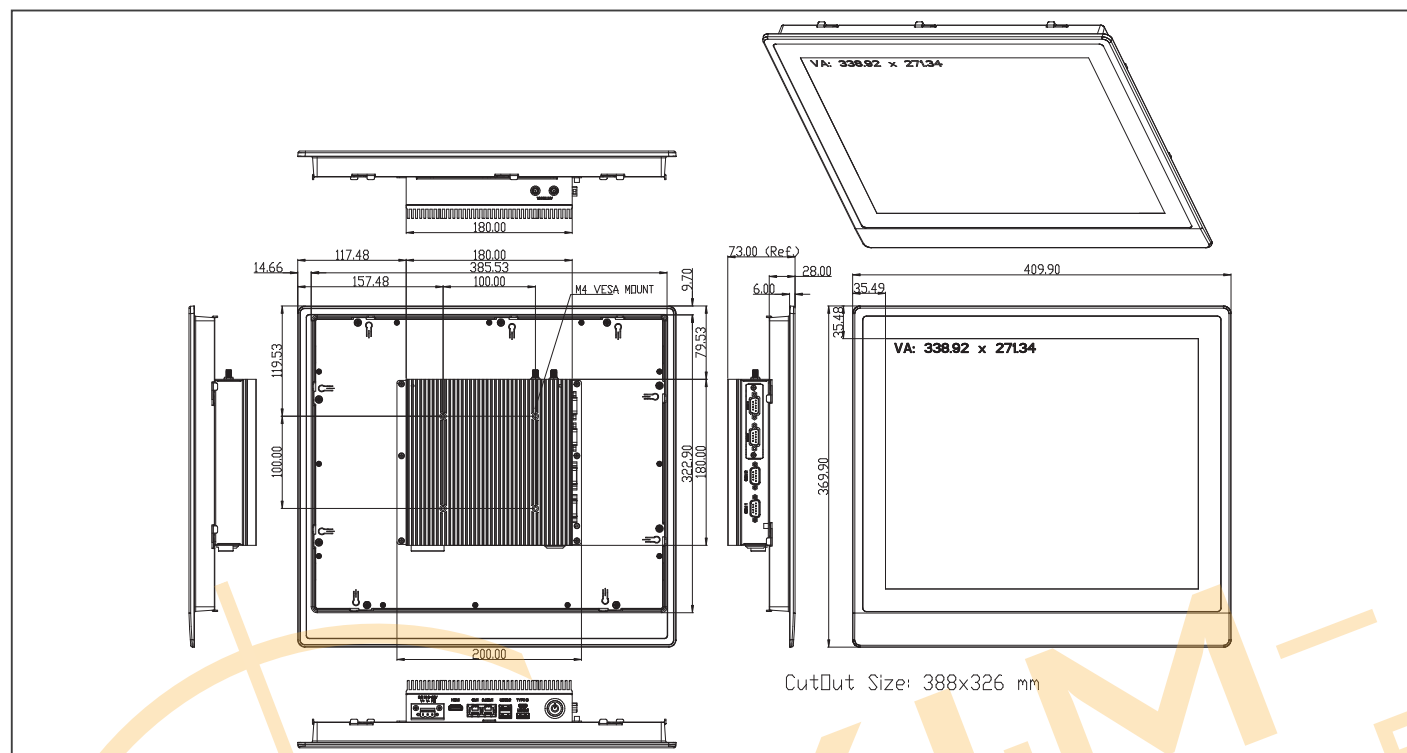
Specifications

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	16.14" x 14.56" x 2.87" (409.9mm x 369.9mm x 73mm)
Carton Dimension	20.1" x 18.1" x 9.8" (510mm x 460mm x 250mm)
Gross Weight	12.4 lb. (5.63Kg)
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	17" TFT-LCD, LED
Max Resolution	1280(H) x 1024(V)
Max. Colors	16.7M colors (RGB 6-bits + Hi-FRC data)
Luminance	350 cd/m ²
Viewing Angle	170° (H), 160° (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%)

Note: All specifications are subject to change without notice.

Dimension

Unit: mm

**Packing List**

- Phoenix Power Connector
- OMNI-3175-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-3175HTT-ADP-A1-1010	17" TFT LCD	1280 x 1024	350 cd/m ²	170°(H)/160°(V)	Intel® Celeron® Processor 730SE	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	-20o~50oC with air flow	Resistive Touch
OMNI-3175HTT-ADP-A2-1010	17" TFT LCD	1280 x 1024	350 cd/m ²	170°(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	-20o~50oC with air flow	Resistive Touch
OMNI-3175HTT-ADP-A3-1010	17" TFT LCD	1280 x 1024	350 cd/m ²	170°(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	-20o~50oC with air flow	Resistive Touch
OMNI-3175HTT-ADP-A5-1010	17" TFT LCD	1280 x 1024	350 cd/m ²	170°(H)/160°(V)	Intel® Celeron® Processor 730SE	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	-20o~50oC with air flow	Projective Touch
OMNI-3175HTT-ADP-A6-1010	17" TFT LCD	1280 x 1024	350 cd/m ²	170°(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	-20o~50oC with air flow	Projective Touch
OMNI-3175HTT-ADP-A7-1010	17" TFT LCD	1280 x 1024	350 cd/m ²	170°(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	-20o~50oC with air flow	Projective Touch

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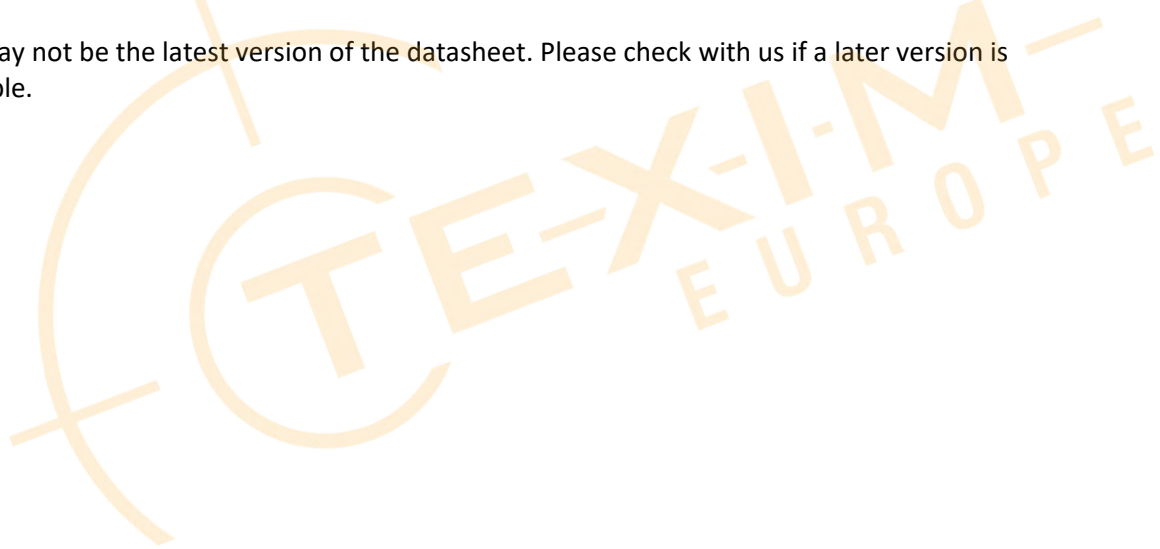
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Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time.

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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