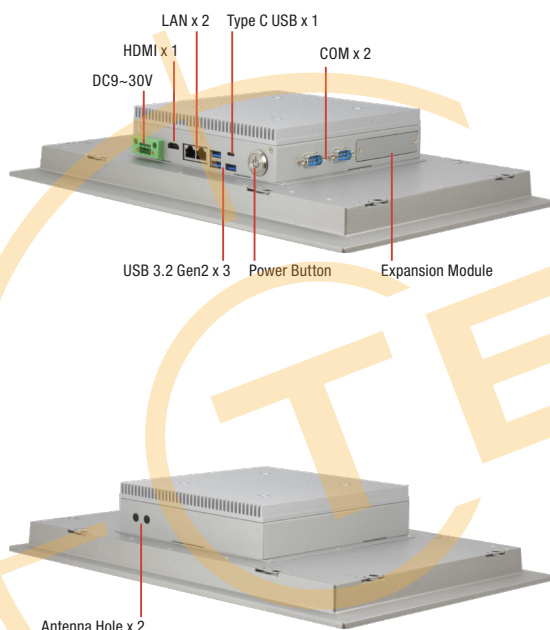




OMNI-2155-ADP

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



Optional Accessories

9641MNAD0E
USB 2.0 x 2



9651MNAD01
RS-232/422/485 x 2



Features

- 15.6" (1920 x 1080) / (1366 x 768) TFT LCD Display
- 12th Generation Intel® Core™ i7/i5/i3/Celeron® Processors
- P-CAP or Resistive Touch Screen Support
- M.2 2280 M-Key (PCIe [x4])
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation
- VESA Mount/Built-in Panel Mount Bracket
- Wide 9 ~ 30V DC Input Range



Specifications

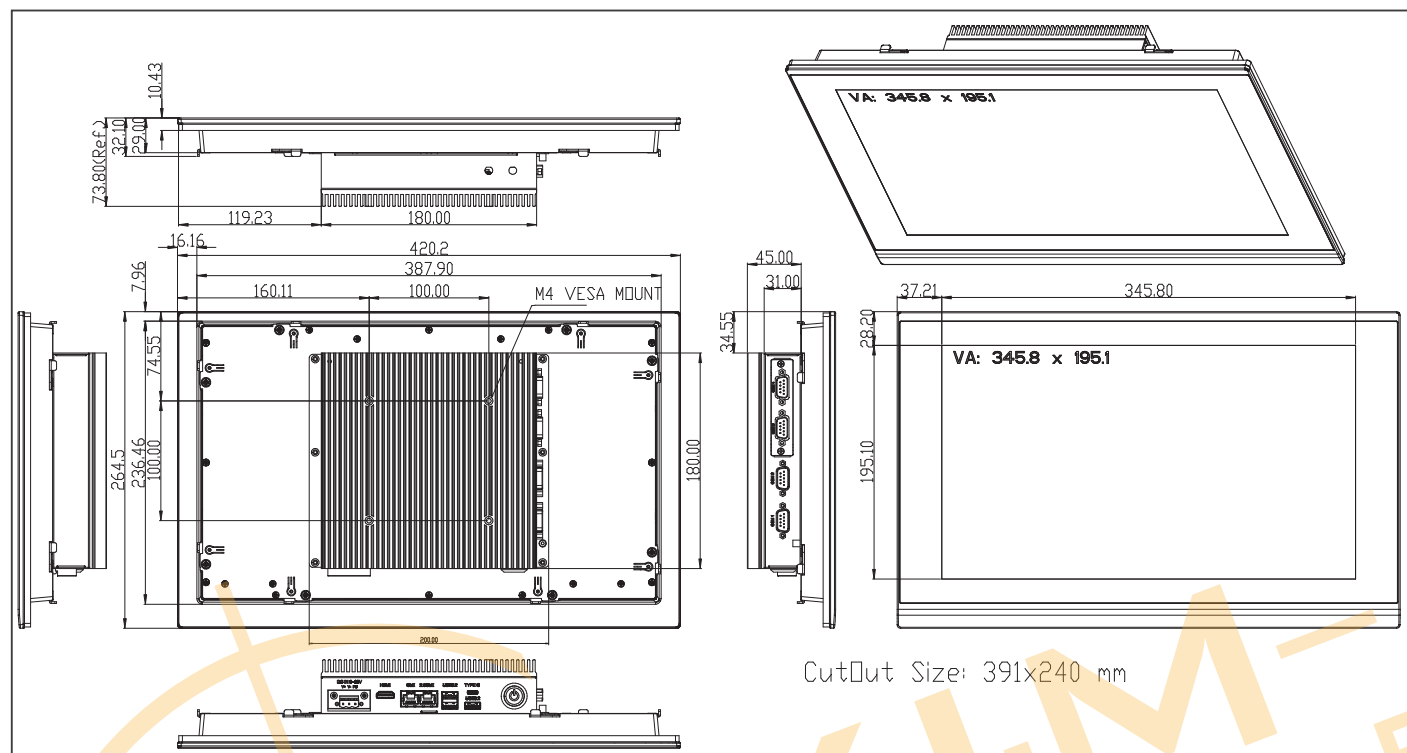
System	
Processor	12th Generation Intel® Core™/Celeron® Processors: Intel® Core™ i7-1265UE Intel® Core™ i5-1245UE Intel® Core™ i3-1215UE Intel® Celeron® Processor 7305E
System Memory	DDR5 4800 MHz, Dual Channel SODIMM x 2, up to 64GB
LCD/CRT Controller	—
Ethernet	Intel® i219, 10/100/1000Base Intel® i226, 10/100/1000/2500Base
I/O Port	RJ-45 LAN x 2 USB 3.2 Gen 2 (Type-A) x 3 USB 3.2 Gen 2 (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] for NVMe Storage)
Expansion Slot	M.2 3052 B-Key x 1 (Default: USB 3.2 Gen 2 + SATA, PCIe [x2] optional by BOM) 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	16.5" x 10.41" x 2.9" (420.2mm x 264.5mm x 73.8mm)
Carton Dimension	20.86" x 17.51" x 7.87" (530 mm x 445 mm x 200mm)
Gross Weight	11.46 lb (5.2kg)
Environmental	
Operating Temperature	-4°F ~ 122°F (-20°C ~ 50°C) with 0.5 m/s 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
Power Supply	
DC input	DC 9~30V
LCD	
Display Type	15.6" TFT-LCD, LED
Max Resolution	Regular 1366 (H) x 768 (V) Full HD 1920 (H) x 1080 (V)
Max. Colors	Regular : 16.7M (8 bit/color) Full HD: 16.2M
Luminance	Regular : 400 cd/m ² Full HD : 450 cd/m ²
Viewing Angle	Regular : 170° (H) ; 130° (V) Full HD: 178° (H) ; 178° (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



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-2155HTT-ADP-A5-1010	15.6" TFT LCD	1366 x 768	400 cd/m ²	170°(H) 130°(V)	Intel® Celeron® Processor 7305E	2	USB 3.2 Gen 2 (Type-A) x 3 USB 3.2 Gen 2 (Type-C) x 1	2	2.5" SATA-III x 1 M.2 2280 M-Key x 1 (PCIe [x4] for NVMe Storage)	DDR5, up to 64GB	HDMI x1	M.2 3052 B-Key x 1 (Default: USB 3.2 Gen 2 + SATA, PCIe [x2] optional by BOM) M.2 2230 E-Key x 1 (PCIe, USB 2.0)	VESA / Panel Mount	DC 9~30V	-20°C ~ 50°C with airflow	Projected capacitive
OMNI-2155HTT-ADP-A6-1010	15.6" TFT LCD	1366 x 768	400 cd/m ²	170°(H) 130°(V)	Intel® Core™ i3-1215UE	2	USB 3.2 Gen 2 (Type-A) x 3 USB 3.2 Gen 2 (Type-C) x 1	2	2.5" SATA-III x 1 M.2 2280 M-Key x 1 (PCIe [x4] for NVMe Storage)	DDR5, up to 64GB	HDMI x1	M.2 3052 B-Key x 1 (Default: USB 3.2 Gen 2 + SATA, PCIe [x2] optional by BOM) M.2 2230 E-Key x 1 (PCIe, USB 2.0)	VESA / Panel Mount	DC 9~30V	-20°C ~ 50°C with airflow	Projected capacitive
OMNI-2155HTT-ADP-A7-1010	15.6" TFT LCD	1366 x 768	400 cd/m ²	170°(H) 130°(V)	Intel® Core™ i5-1245UE	2	USB 3.2 Gen 2 (Type-A) x 3 USB 3.2 Gen 2 (Type-C) x 1	2	2.5" SATA-III x 1 M.2 2280 M-Key x 1 (PCIe [x4] for NVMe Storage)	DDR5, up to 64GB	HDMI x1	M.2 3052 B-Key x 1 (Default: USB 3.2 Gen 2 + SATA, PCIe [x2] optional by BOM) M.2 2230 E-Key x 1 (PCIe, USB 2.0)	VESA / Panel Mount	DC 9~30V	-20°C ~ 50°C with airflow	Projected capacitive
OMNI-2155HTT-ADP-A8-1010	15.6" TFT LCD	1366 x 768	400 cd/m ²	170°(H) 130°(V)	Intel® Core™ i7-1265UE	2	USB 3.2 Gen 2 (Type-A) x 3 USB 3.2 Gen 2 (Type-C) x 1	2	2.5" SATA-III x 1 M.2 2280 M-Key x 1 (PCIe [x4] for NVMe Storage)	DDR5, up to 64GB	HDMI x1	M.2 3052 B-Key x 1 (Default: USB 3.2 Gen 2 + SATA, PCIe [x2] optional by BOM) M.2 2230 E-Key x 1 (PCIe, USB 2.0)	VESA / Panel Mount	DC 9~30V	-20°C ~ 50°C with airflow	Projected capacitive
OMNI-2155HDT-ADP-A5-1010	15.6" TFT LCD	1920 x 1080	450 cd/m ²	178°(H) 178°(V)	Intel® Celeron® Processor 7305E	2	USB 3.2 Gen 2 (Type-A) x 3 USB 3.2 Gen 2 (Type-C) x 1	2	2.5" SATA-III x 1 M.2 2280 M-Key x 1 (PCIe [x4] for NVMe Storage)	DDR5, up to 64GB	HDMI x1	M.2 3052 B-Key x 1 (Default: USB 3.2 Gen 2 + SATA, PCIe [x2] optional by BOM) M.2 2230 E-Key x 1 (PCIe, USB 2.0)	VESA / Panel Mount	DC 9~30V	-20°C ~ 50°C with airflow	Projected capacitive
OMNI-2155HDT-ADP-A6-1010	15.6" TFT LCD	1920 x 1080	450 cd/m ²	178°(H) 178°(V)	Intel® Core™ i3-1215UE	2	USB 3.2 Gen 2 (Type-A) x 3 USB 3.2 Gen 2 (Type-C) x 1	2	2.5" SATA-III x 1 M.2 2280 M-Key x 1 (PCIe [x4] for NVMe Storage)	DDR5, up to 64GB	HDMI x1	M.2 3052 B-Key x 1 (Default: USB 3.2 Gen 2 + SATA, PCIe [x2] optional by BOM) M.2 2230 E-Key x 1 (PCIe, USB 2.0)	VESA / Panel Mount	DC 9~30V	-20°C ~ 50°C with airflow	Projected capacitive
OMNI-2155HDT-ADP-A7-1010	15.6" TFT LCD	1920 x 1080	450 cd/m ²	178°(H) 178°(V)	Intel® Core™ i5-1245UE	2	USB 3.2 Gen 2 (Type-A) x 3 USB 3.2 Gen 2 (Type-C) x 1	2	2.5" SATA-III x 1 M.2 2280 M-Key x 1 (PCIe [x4] for NVMe Storage)	DDR5, up to 64GB	HDMI x1	M.2 3052 B-Key x 1 (Default: USB 3.2 Gen 2 + SATA, PCIe [x2] optional by BOM) M.2 2230 E-Key x 1 (PCIe, USB 2.0)	VESA / Panel Mount	DC 9~30V	-20°C ~ 50°C with airflow	Projected capacitive
OMNI-2155HDT-ADP-A8-1010	15.6" TFT LCD	1920 x 1080	450 cd/m ²	178°(H) 178°(V)	Intel® Core™ i7-1265UE	2	USB 3.2 Gen 2 (Type-A) x 3 USB 3.2 Gen 2 (Type-C) x 1	2	2.5" SATA-III x 1 M.2 2280 M-Key x 1 (PCIe [x4] for NVMe Storage)	DDR5, up to 64GB	HDMI x1	M.2 3052 B-Key x 1 (Default: USB 3.2 Gen 2 + SATA, PCIe [x2] optional by BOM) M.2 2230 E-Key x 1 (PCIe, USB 2.0)	VESA / Panel Mount	DC 9~30V	-20°C ~ 50°C with airflow	Projected capacitive

Packing List

- Phoenix Power Connector
- OMNI-2155-ADP
- Screws

Optional Accessories

- **AP-0T9789LA1000**
LA-100 LCD Monitor Stand
- **170X000799**
Power Cord (US Type)
- **170X001024**
Power Cord (European Type)
- **170X000803**
Power Cord (Japanese Type)
- **1255X00059**
19V 120W Power Adapter
- **9641MNAD0E**
USB 2.0 x 2 (Expansion I/O Module)
- **9651MNAD01**
RS-232/422/485 x 2 (Expansion I/O Module)
- **9641MNAD0D**
USB 2.0 x 2 (Internal Port)

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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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