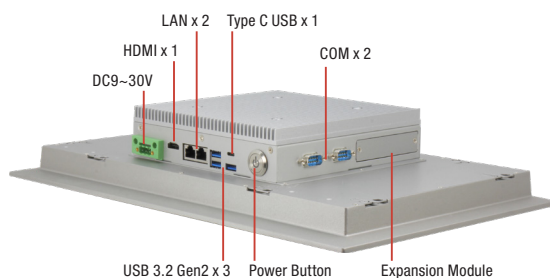


# OMNI-2155-ADP

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



## Optional Accessories

**9651MNAD02**  
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



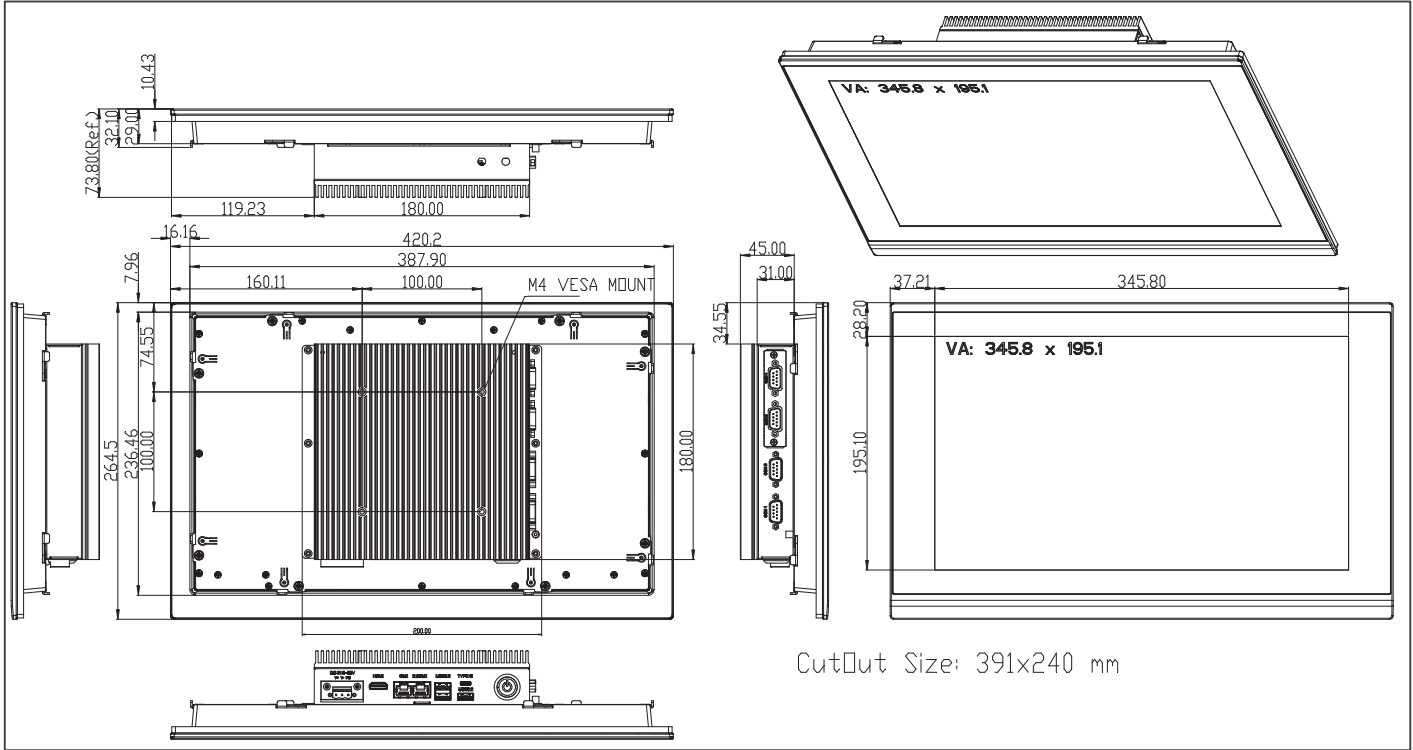
## Specifications

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 2.0 x 1 (Type-C) 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 <sup>2</sup> Full HD : 450 cd/m <sup>2</sup>
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



## Packing List

- Phoenix Power Connector
- OMNI-2155-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-2155HTT-ADP-A5-1010	15.6" TFT LCD	1366 x 768	400 cd/m <sup>2</sup>	170°(H) 130°(V)	Intel® Celeron® Processor 7305E	2	USB 3.2 Gen 2 (Type-A) x 3 USB 2.0 x 1 (Type-C)	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 <sup>2</sup>	170°(H) 130°(V)	Intel® Core™ i3-1215UE	2	USB 3.2 Gen 2 (Type-A) x 3 USB 2.0 x 1 (Type-C)	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 <sup>2</sup>	170°(H) 130°(V)	Intel® Core™ i5-1245UE	2	USB 3.2 Gen 2 (Type-A) x 3 USB 2.0 x 1 (Type-C)	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 <sup>2</sup>	170°(H) 130°(V)	Intel® Core™ i7-1265UE	2	USB 3.2 Gen 2 (Type-A) x 3 USB 2.0 x 1 (Type-C)	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 <sup>2</sup>	178°(H) 178°(V)	Intel® Celeron® Processor 7305E	2	USB 3.2 Gen 2 (Type-A) x 3 USB 2.0 x 1 (Type-C)	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 <sup>2</sup>	178°(H) 178°(V)	Intel® Core™ i3-1215UE	2	USB 3.2 Gen 2 (Type-A) x 3 USB 2.0 x 1 (Type-C)	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 <sup>2</sup>	178°(H) 178°(V)	Intel® Core™ i5-1245UE	2	USB 3.2 Gen 2 (Type-A) x 3 USB 2.0 x 1 (Type-C)	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 <sup>2</sup>	178°(H) 178°(V)	Intel® Core™ i7-1265UE	2	USB 3.2 Gen 2 (Type-A) x 3 USB 2.0 x 1 (Type-C)	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