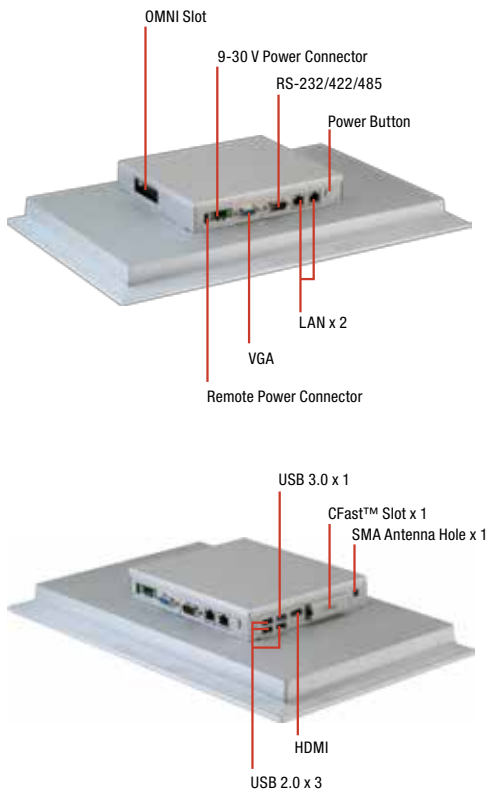


# 03 OMNI-2155

Industrial Modular Touch Panel Solutions

15.6" Modular HMI Panel PC with Intel® J1900/ N2807 Processor



## Features

- Intel® J1900/ N2807 Processor
- Flat Screen with P-CAP or Resistive Touch
- Easily Expandable I/O by AAEON OMNI I/O Modules
- Multiple Touchscreen
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation
- Support Remote Power On/Off Connector
- Power Input Protection: Over-Voltage Protection, Low-Voltage Protection, Reverse-Voltage Protection

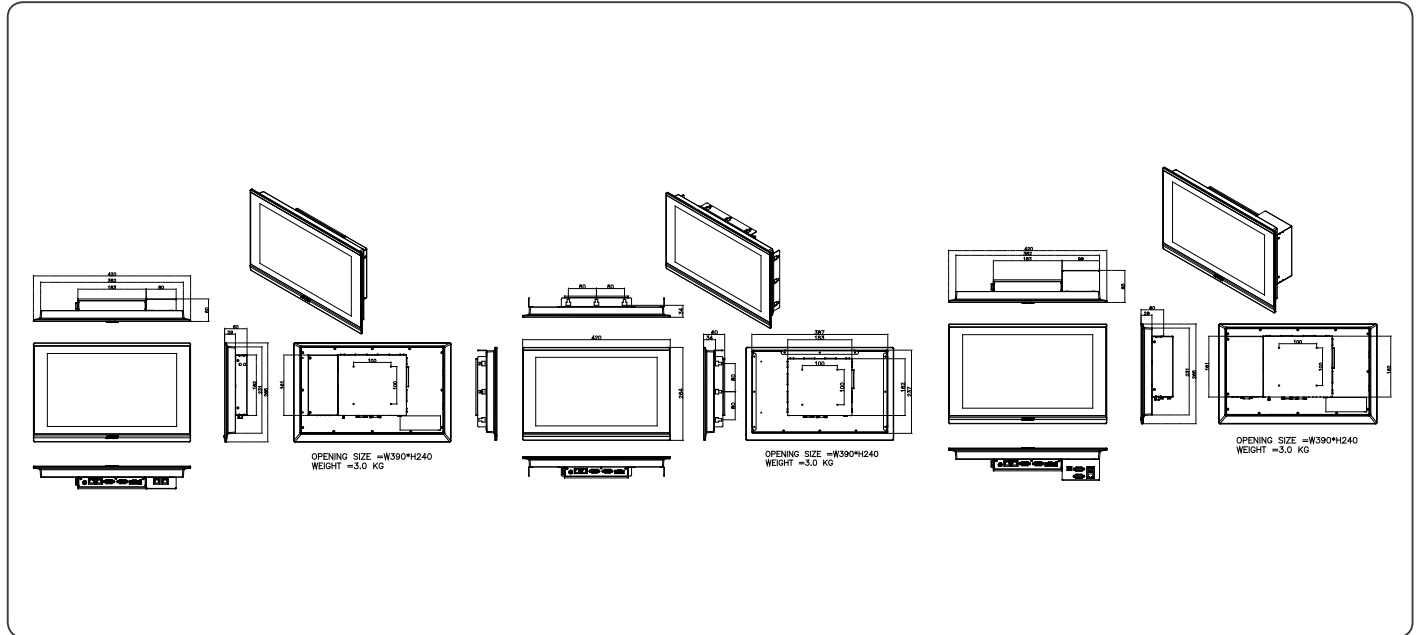


## Specifications

System	
Processor	Intel® J1900 ,2 GHz / N2807, 1.58 GHz
System Memory	204-pin DDR3L 1333MHz SODIMM x 1, up to 8 GB (J1900), 4 GB (N2807)
LCD/CRT Controller	Integrated in Processor
Ethernet	10/100/1000Base-TX, RJ-45 x 2
I/O Port	USB type A x 1 for USB 3.0 USB type A x 3 for USB 2.0 SMA antenna hole x 1 HDMI x 1 CFast™ x 1 DB-9 for RS-232/422/485 x 1 RJ-45 x 2 for 10/100/1000Base-TX DB-15 x 1 for VGA 3-pin terminal block x 1 for 9~30 V DC power input LED Power On/Off Switch x 1 (Power on = orange, Power off =N/A)
Storage Disk Drive	CFast™ socket x 1 SATA 2.5" HDD bay x 1
Expansion Slot	Mini-Card x 2 (Full Size), OMNI I/O Connector x 1
OS support	Windows® 7, Windows® 8, Windows® 10, Linux kernel 2.6.x or higher
Mechanical	
Construction	Aluminum front bezel + metal chassis
Mounting	VESA 100/ Panel mount
Dimension (mm)	16.54" x 10.39" x 2.36" (420mm x 264mm x 60mm)
Gross Weight	6.6 lb (3 kg)
Environmental	
Operating Temperature	-20°C~60°C with industrial grade device (with 0.5 m/s air flow, according to IEC68-2-14, CPU: N2807) -20°C~55°C with industrial grade device (with 0.5 m/s air flow, according to IEC68-2-14, CPU: J1900)
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Humidity	90% @40°C, non-condensing
Anti-Vibration	1 Grms/ 5 ~ 500 Hz/ Operation (HDD)
Anti-Shock	15 G peak acceleration (11 msec. duration)
EMC	CE/FCC class A
Power Supply	
DC input	DC 9 ~ 30 V
LCD	
Display type	15.6" TFT-LCD, LED backlight
Max Resolution	1366 x 768
Max. Colors	16.7M colors (8-bit for R,G,B)
Luminance	400 cd/m <sup>2</sup>
Viewing Angle	160°(H), 140°(V)
Back Light MTBF (Hours)	50,000
Touchscreen	
Type	P-CAP/ 5-wire resistive

## Dimension

Unit: mm



## Ordering Information

	Part Number	Display Type	Max Resolution	Luminance	View Angle	CPU	LAN	USB 3.0	USB 2.0	RS-232/422/485	Storage	RAM	Display	Expansion	Mounting	Power	Operating Temp.	Touch
Panel PC	OMNI-2155HTT-BT-A1-1011	15.6" TFT LCD	1366 x 768	400 cd/m <sup>2</sup>	160°(H) 140°(V)	Intel® J1900, 2 GHz	2	1	3	1	CFast™ x 1 2.5 SATA HDD x 1	DDR3L, up to 8 GB	VGA x 1	Mini-Card x 2 (Full Size) OMNI Module	VESA 100/ Panel mount	DC 9-30V	-10°C~55°C with airflow	5-wire Resistive
	OMNI-2155HTT-BT-A2-1011	15.6" TFT LCD	1366 x 768	400 cd/m <sup>2</sup>	160°(H) 140°(V)	Intel® N2807, 1.58 GHz	2	1	3	1	CFast™ x 1 2.5 SATA HDD x 1	DDR3L, up to 8 GB	VGA x 1		VESA 100/ Panel mount	DC 9-30V	-10°C~60°C with airflow	5-wire Resistive
	OMNI-2155HTT-BT-A3-1011	15.6" TFT LCD	1366 x 768	400 cd/m <sup>2</sup>	160°(H) 140°(V)	Intel® J1900, 2 GHz	2	1	3	1	CFast™ x 1 2.5 SATA HDD x 1	DDR3L, up to 8 GB	VGA x 1		VESA 100/ Panel mount	DC 9-30V	-10°C~55°C with airflow	Projected capacitive
	OMNI-2155HTT-BT-A4-1011	15.6" TFT LCD	1366 x 768	400 cd/m <sup>2</sup>	160°(H) 140°(V)	Intel® N2807, 1.58 GHz	2	1	3	1	CFast™ x 1 2.5 SATA HDD x 1	DDR3L, up to 8 GB	VGA x 1		VESA 100/ Panel mount	DC 9-30V	-10°C~60°C with airflow	Projected capacitive
Panel Kit	OMNI-215DHTT-KIT-A1-1011	15.6" TFT LCD	1366 x 768	400 cd/m <sup>2</sup>	160°(H) 140°(V)	—	—	—	—	—	—	—	—	—	—	—	-10°C~60°C with airflow	5-wire Resistive
	OMNI-215DHTT-KIT-A2-1011	15.6" TFT LCD	1366 x 768	400 cd/m <sup>2</sup>	160°(H) 140°(V)	—	—	—	—	—	—	—	—	—	—	—	-10°C~60°C with airflow	Projected capacitive
CPU Box Kit	OMNI-BT-KIT-A1-1010	—	—	—	—	Intel® J1900, 2 GHz	2	1	3	1	CFast™ x 1 2.5 SATA HDD x 1	DDR3L, up to 8 GB	VGA x 1	Mini-Card x 2 (Full Size) OMNI Module	VESA 100/ Panel mount	DC 9-30V	-10°C~55°C with airflow	—
	OMNI-BT-KIT-A2-1010	—	—	—	—	Intel® N2807, 1.58 GHz	2	1	3	1	CFast™ x 1 2.5 SATA HDD x 1	DDR3L, up to 8 GB	VGA x 1		VESA 100/ Panel mount	DC 9-30V	-10°C~60°C with airflow	—

Note: \* RAM not included \* Panel Mount Kit (Optional)

## Packing List

- Phoenix Power Connector
- Product DVD
- OMNI-2155

## Optional Accessories

- **AP-0T9789LA1000**  
LCD monitor Stand 230mm, LA-100
- **1702031802**  
Power Cord (US Type)
- **1702031803**  
Power Cord (European Type)
- **170203180E**  
Power Cord (Japanese Type)
- **1255900841**  
12V 84W Power Adapter w/ 3pin Terminal Block
- **1700021500**  
Remote Switch Cable, 150 cm

## OMNI Module (With AAEON Interface)

- **9741215501**  
Mini Card x 2 I/O Module
- **9741215502**  
Dual LAN Module
- **9741215515**  
USB/COM/LAN Module
- **9741215516**  
COM Module
- **9741215517**  
Isolated COM Module
- **9741215506**  
DIO Module
- **9741215508**  
Audio Module
- **9741215510**  
HMS Kit
- **9741215518**  
COM, DIO Module
- **9741215512**  
WiFi I/O Module
- **9741215513**  
COM x 2
- **9741215519**  
PCI Module
- **9741215520**  
PCIe Module

## Wide Temperature DRAM

- **9761215500**  
2GB Wide Temperature DRAM (-40°C ~ 95°C)
  - **9761215501**  
4GB Wide Temperature DRAM (-40°C ~ 95°C)
  - **9761215502**  
8GB Wide Temperature DRAM (-40°C ~ 95°C)
- \*\*Users should select the wide temperature DRAM above and use wide temperature storage devices if the OMNI panel pc is to be operated at over 40°C.