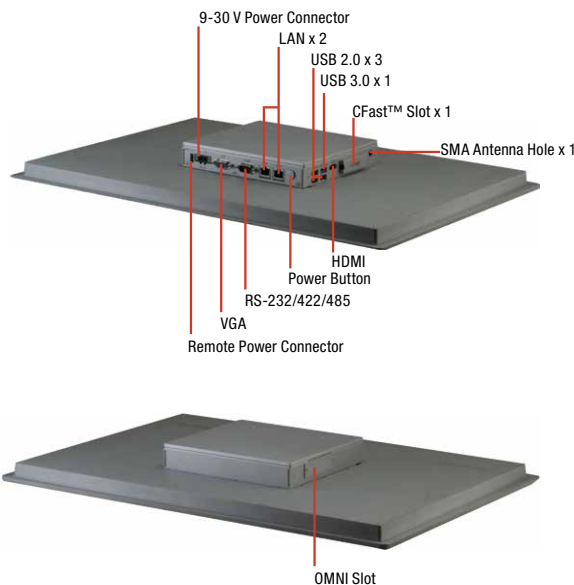


# 03 OMNI-2215-BT

Industrial Modular Touch Panel Solutions

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



## Features

- 21.5" WXGA (1920 x 1080) Color TFT LCD Display
- Intel® N2807/J1900 Processor
- P-CAP or Resistive Touch Support
- Multiple Touchscreen
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation
- Power Input Protection: Over-Voltage Protection, Low-Voltage Protection, Reverse-Voltage Protection
- Easily Expandable I/O by AAEON OMNI I/O Modules

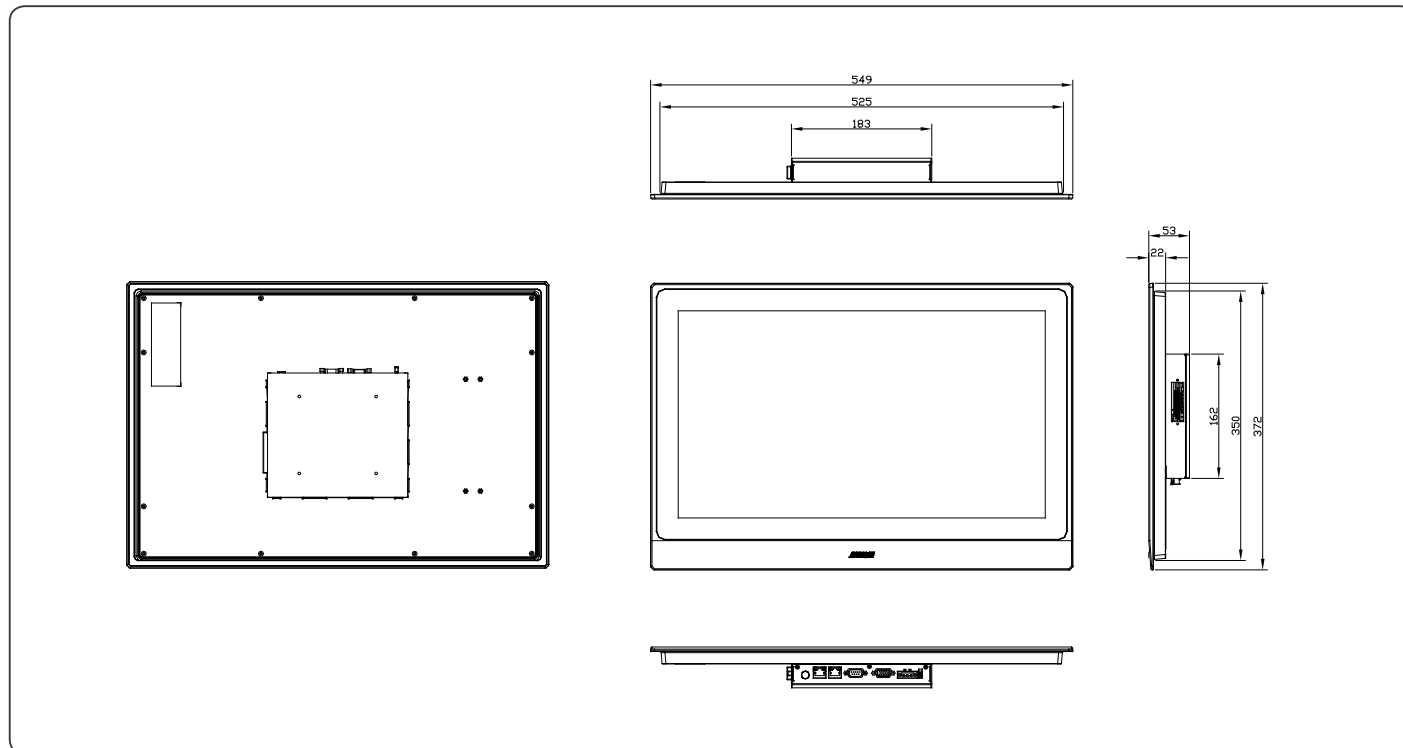


## Specifications

System	
Processor	Intel® N2807 processor, 1.58 GHz, Intel® J1900 processor, 2 GHz
System Memory	204-Pin DDR3L SODIMM x 1, up to 8 GB (J1900) 204-Pin DDR3L SODIMM x 1, up to 4 GB (N2807)
LCD/CRT controller	Integrated in processor
Ethernet	10/100/1000Base-TX, RJ-45 x 2
I/O Port	DB9 Type RS-232/422/485 x 1 USB 2.0 x 3 USB 3.0 x 1 HDMI x 1 RJ-45 10/100/1000 LAN x 1 Lockable power input connector Power switch x 1
Storage Disk Drive	CFast™ x 1, 2.5" SATA HDD bay x 1
Expansion Slot	Full size Mini-Card x 2
OS support	Windows® 7, Windows® 8.1, Windows® 10, Linux kernel 2.6.3 or above
Mechanical	
Construction	Aluminum design
Mounting	VESA 100/ Panel mount
Dimension	21.6" x 14.6" x 2.1" (549mm x 372mm x 53mm)
Gross Weight	19.6 lb (8.9 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
Vibration	1 Grms / 5~ 500Hz / operation – with HDD
Shock	15 G peak acceleration (11 msec. duration) – with HDD
EMC	CE/FCC class A
Power Supply	
DC input	DC9~30V, with lockable power adapter
LCD	
Display type	21.5" TFT-LCD, LED
Max Resolution	1920 x 1080
Max. Colors	16.7M colors (RGB 8-bit)
Luminance	250 cd/m²
Viewing Angle	178°(H), 178°(V)
Back Light	LED
Back Light MTBF (hours)	50,000
Touchscreen	
Type	5-wire resistive Projective capacitive multi-touch (2-point)
Light Transmission	90%

## 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-2215HTT-BT-A1-1010	21.5" TFT LCD	1920 x 1080	250 cd/m <sup>2</sup>	178°(H) 178°(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-2215HTT-BT-A2-1010	21.5" TFT LCD	1920 x 1080	250 cd/m <sup>2</sup>	178°(H) 178°(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	Mini-Card x 2 (Full Size) OMNI Module	VESA 100/ Panel mount	DC 9-30V	-10°C~60°C with airflow	5-wire Resistive
	OMNI-2215HTT-BT-A3-1010	21.5" TFT LCD	1920 x 1080	250 cd/m <sup>2</sup>	178°(H) 178°(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	Projected capacitive
	OMNI-2215HTT-BT-A4-1010	21.5" TFT LCD	1920 x 1080	250 cd/m <sup>2</sup>	178°(H) 178°(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	Mini-Card x 2 (Full Size) OMNI Module	VESA 100/ Panel mount	DC 9-30V	-10°C~60°C with airflow	Projected capacitive
Panel Kit	OMNI-221DHTT-KIT-A1-1010	21.5" TFT LCD	1920 x 1080	250 cd/m <sup>2</sup>	178°(H) 178°(V)	—	—	—	—	—	—	—	—	—	—	—	-10°C~60°C with airflow	5-wire Resistive
	OMNI-221DHTT-KIT-A2-1010	21.5" TFT LCD	1920 x 1080	250 cd/m <sup>2</sup>	178°(H) 178°(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	Mini-Card x 2 (Full Size) OMNI Module	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-2215-BT

## 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
- **9741215509**  
Panel Mount Kit
- **1700021500**  
Remote Switch Cable, 150 cm

## OMNI Module (With AAEON Interface)

- **9741215501**  
WiFi & SIM Card Module (Mini-Card WiFi Module is not included)
- **9741215502**  
Dual LAN Module
- **9741215503**  
USB / COM / LAN Module
- **9741215504**  
COM Port Module
- **9741215505**  
Isolated COM Port module
- **9741215506**  
DIO Module
- **9741215507**  
CAN Bus Module
- **9741215508**  
Audio Module
- **9741215510**  
HMS Kit
- **9741215511**  
COM x 4, DIO x16 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.