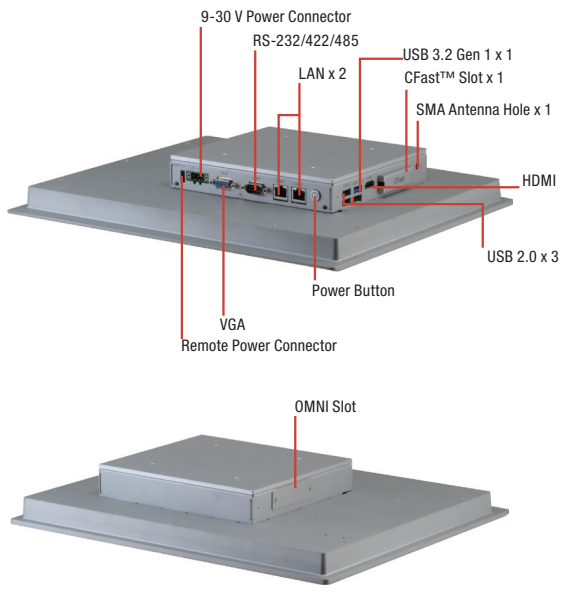
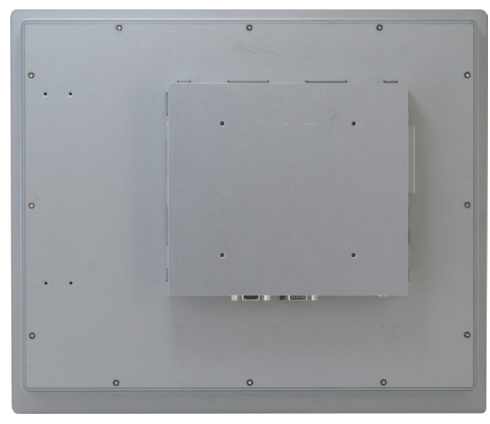


# OMNI-3155-BT

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

OMNI Series : Modular Touch Panel Solutions



## Features

- 15" (1024 x 768) TFT LCD Display
- Intel® N2807/J1900 Processor
- P-CAP or Resistive Touch Screen Support
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation
- Easily Expandable I/O by AAEON OMNI I/O Modules

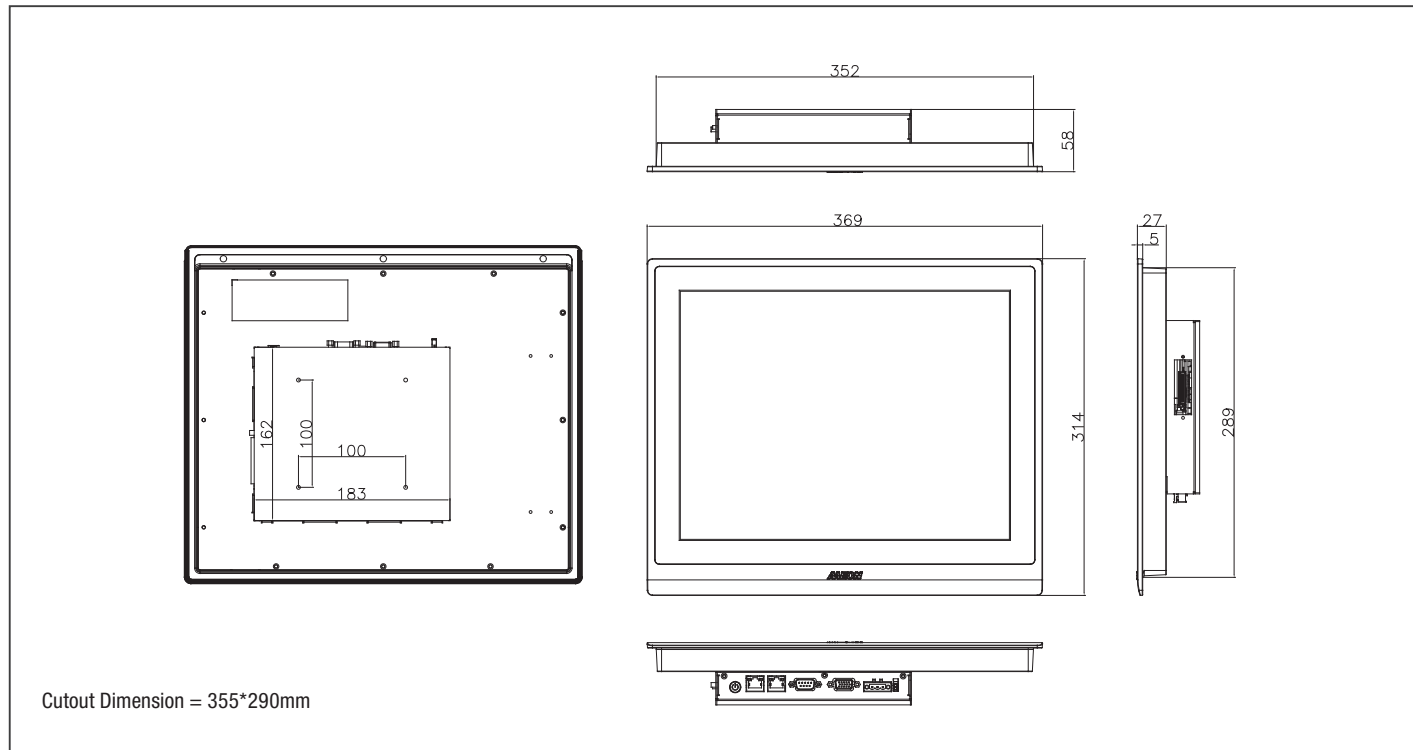


## Specifications

System	
Processor	Intel® N2807 processor, 1.58 GHz Intel® Celeron® J1900 processor, 2 GHz
System Memory	204-pin DDR3L 1333MHz SODIMM x 1, up to 8 GB, (J1900) 204-pin DDR3L 1333MHz SODIMM x 1, up to 4 GB, (N2807)
LCD/CRT Controller	Integrated in processor
Ethernet	Intel® I211, 10/100/1000 Base-TX x 2
I/O Port	USB 2.0 Type A x 3 USB 3.2 Gen 1 Type A x 1 SMA Antenna hole x 1 HDMI x 1, CFast™ x 1 DB-9 Type RS-232/422/485 x 1 RJ-45 Type for 10/100/1000Base-TX x 2 DB-15 x 1 for VGA 3-pin terminal block x1 for 9~30 Vdc power input LED Power on/off switch x1 (Power on = Orange, Power off =N/A)
Storage Disk Drive	CFast™ x 1, 2.5" SATA HDD bay x 1
Expansion Slot	Full Size Mini card x 2, SIM card x 1, OMNI I/O connector x 1
OS support	Windows® 7, Windows® 8, Windows® 10, Linux kernel 2.6.x or higher
Mechanical	
Construction	Aluminum design (IP65 Front Frame)
Mounting	VESA 100 / Panel Mount
Dimension	14.53" x 12.36" x 2.28" (369 mm x 314 mm x 58 mm)
Carton Dimension	20.08" x 9.84" x 18.11" (510mm x 250mm x 460mm)
Gross Weight	13.97 lb (6.35 kg)
Environmental	
Operating Temperature	14°F ~ 131°F (-10°C ~ 55°C) (J1900), 14°F ~ 140°F (-10°C ~ 60°C) (N2807) with 0.5 m/s airflow (CF & HDD)
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	DC 9 (min.) ~ 30 (max.) V w/3-pin terminal block, ATX Power function
LCD	
Display Type	15" TFT-LCD, LED
Max Resolution	1024 (H) x 768 (V)
Max. Colors	16.2M (8bit/color)
Luminance	300 cd/m <sup>2</sup>
Viewing Angle	176° (H), 176° (V)
Back Light	LED
Back Light MTBF (Hours)	70,000
Touchscreen	
Type	P-CAP/ 5-wire resistive
Light Transmission	P-CAP (90%± 2%), 5-wire Resistive (80% ± 2%)

## Dimension

Unit: mm



## Ordering Information

	Part Number	Display Type	Max Resolution	Luminance	View Angle	CPU	LAN	USB 3.2 Gen 1	USB 2.0	RS-232/422/485	Storage	RAM	Display	Internal Expansion	Mounting	Power	Operating Temp.	Touch	OMNI I/O Module Support
Panel PC	OMNI-3155HTT-BT-A1-1012	15" TFT LCD	1024 x 768	300 cd/m <sup>2</sup>	176° (H), 176° (V)	Intel® Celeron® J1900, 2 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 8 GB	VGA x 1 HDMI x 1	Mini-Card x 2 (Full Size)	VESA 100/ Panel mount	DC 9-30V	-10°C-55°C with airflow	5-wire Resistive	Yes
	OMNI-3155HTT-BT-A2-1012	15" TFT LCD	1024 x 768	300 cd/m <sup>2</sup>	176° (H), 176° (V)	Intel® N2807, 1.58 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 4 GB	VGA x 1 HDMI x 1		VESA 100/ Panel mount	DC 9-30V	-10°C-60°C with airflow	5-wire Resistive	Yes
	OMNI-3155HTT-BT-A3-1012	15" TFT LCD	1024 x 768	300 cd/m <sup>2</sup>	176° (H), 176° (V)	Intel® Celeron® J1900, 2 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 8 GB	VGA x 1 HDMI x 1		VESA 100/ Panel mount	DC 9-30V	-10°C-55°C with airflow	Projected capacitive	Yes
	OMNI-3155HTT-BT-A4-1012	15" TFT LCD	1024 x 768	300 cd/m <sup>2</sup>	176° (H), 176° (V)	Intel® N2807, 1.58 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 4 GB	VGA x 1 HDMI x 1		VESA 100/ Panel mount	DC 9-30V	-10°C-60°C with airflow	Projected capacitive	Yes
Panel Kit	OMNI-315DHTT-KIT-A1-1012	15" TFT LCD	1024 x 768	300 cd/m <sup>2</sup>	176° (H), 176° (V)	—	—	—	—	—	—	—	—	—	—	—	-10°C-60°C with airflow	5-wire Resistive	No
	OMNI-315DHTT-KIT-A2-1012	15" TFT LCD	1024 x 768	300 cd/m <sup>2</sup>	176° (H), 176° (V)	—	—	—	—	—	—	—	—	—	—	—	-10°C-60°C with airflow	Projected capacitive	No
CPU Box Kit	OMNI-BT-KIT-A1-1010	—	—	—	—	Intel® Celeron® J1900, 2 GHz	2	1	3	1	CFast™ x 1 2.5" SATA HDD x 1	DDR3L, up to 8 GB	VGA x 1 HDMI x 1	Mini-Card x 2 (Full Size)	VESA 100/ Panel mount	DC 9-30V	-10°C-55°C with airflow	—	Yes
	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 4 GB	VGA x 1 HDMI x 1	Mini-Card x 2 (Full Size)	VESA 100/ Panel mount	DC 9-30V	-10°C-60°C with airflow	—	Yes

Note: \* RAM not included

## Packing List

- Phoenix Power Connector
- OMNI-3155-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)
- **1255900849**  
12V 84W Power Adapter w/ 3pin Terminal Block
- **1700021500**  
Remote Switch Cable, 150 cm

## OMNI Module (with AAEON Interface)

- **9741215501**  
Mini Card x 2, SIM x 2 Module
- **9741215502**  
Dual LAN Module
- **9741215506**  
DIO Module
- **9741215508**  
Audio Module
- **9741215510**  
HMS Kit (Europe Limitation)
- **9741215512**  
Wifi 802.11b/g/n Module
- **9741215513**  
RS-485/422/232 x 2 Module
- **9741215515**  
USB / COM / LAN Module
- **9741215516**  
RS-485/422/232 x 4 Module
- **9741215517**  
Isolation RS-485/422/232 x 4 Module
- **9741215518**  
RS-485/422/232 x 2, DIO x 16 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.