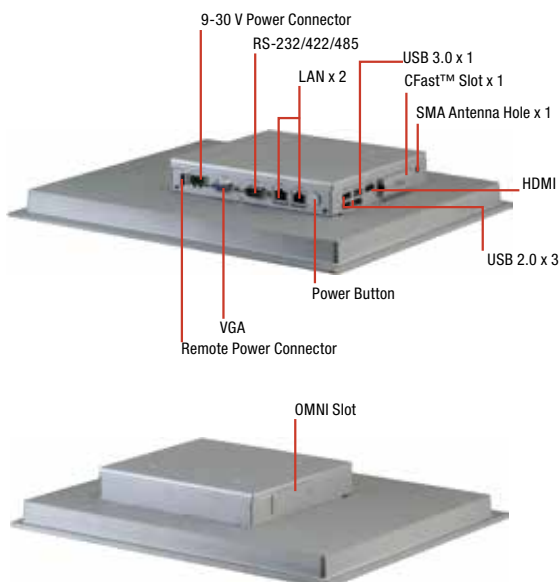


15" Modular HMI Panel PC with Intel® Celeron® J1900/ N2807 Processor



## Features

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



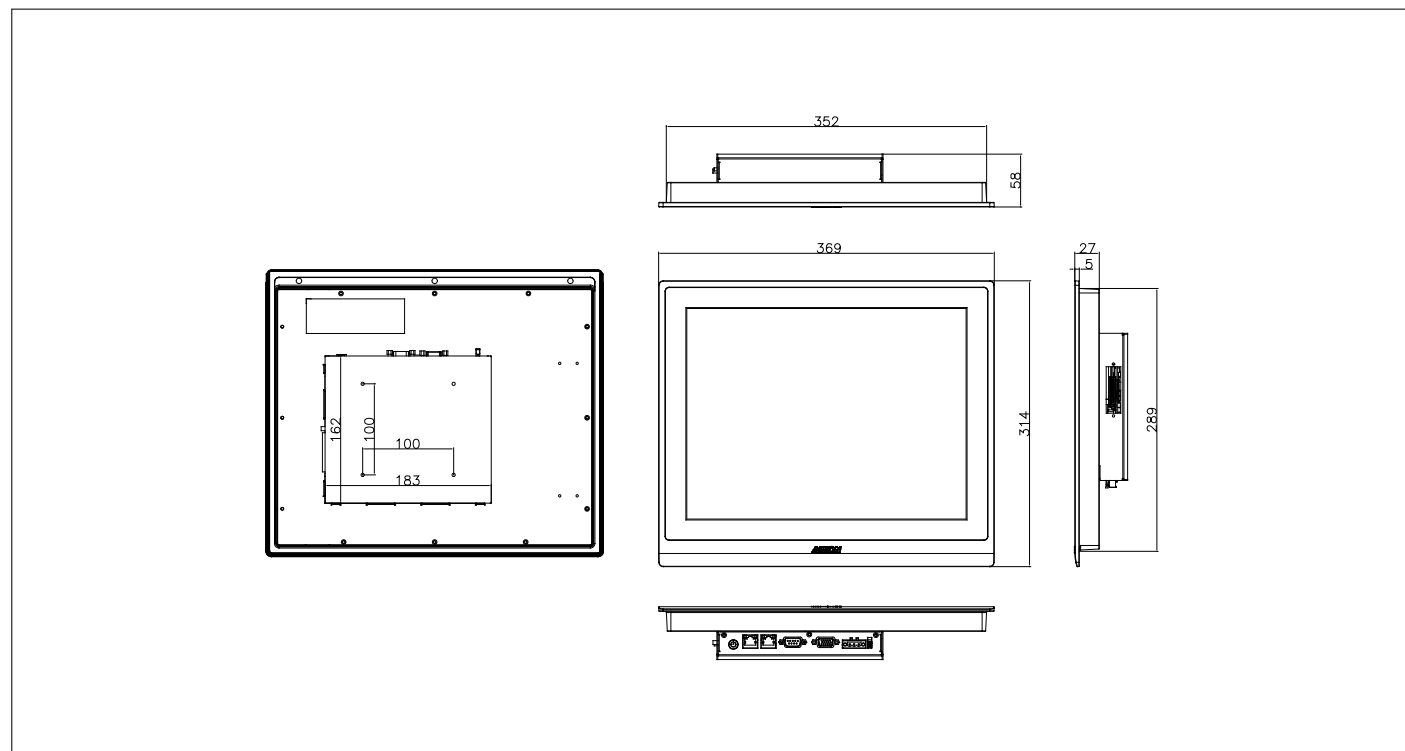
## Specifications

| System                  |                                                                                                                                                                                                                                                                                                           |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Processor               | Intel® N2807 processor, 1.58 GHz<br>Intel® J1900 processor, 2 GHz                                                                                                                                                                                                                                         |
| System Memory           | 204-pin DDR3L 1333MHz SODIMM x 1, up to 8 GB, (J1900)<br>204-pin DDR3L 1333MHz SODIMM x 1, up to 4 GB, (N2807)                                                                                                                                                                                            |
| LCD/CRT Controller      | Integrated in processor                                                                                                                                                                                                                                                                                   |
| Ethernet                | Intel® I211, 10/100/1000Base-TX x 2                                                                                                                                                                                                                                                                       |
| I/O Port                | USB 2.0 type A x 3<br>USB 3.0 type A x 1<br>SMA Antenna hole x 1<br>HDMI x 1<br>CFast x 1<br>DB-9 Type RS-232/422/485 x 1<br>RJ-45 x 2 for 10/100/1000 base-T<br>DB-15 x 1 for VGA<br>3-pin terminal block x1 for 9~30 Vdc power input<br>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          | Mini card x 2 (Testing Compatibility Only)<br>SIM card x 2<br>PCIe x 1 connector (AAEON PIN Define)                                                                                                                                                                                                       |
| OS support              | Windows® 7, Windows® 8, Windows® 10, Linux kernel 2.6.x or above                                                                                                                                                                                                                                          |
| Mechanical              |                                                                                                                                                                                                                                                                                                           |
| Construction            | Aluminum design (IP65 Front Frame)                                                                                                                                                                                                                                                                        |
| Mounting                | Wall /VESA Mount/Desktop (Optional panel mount kits)                                                                                                                                                                                                                                                      |
| Dimension (mm)          | 369 x 314 x 58 mm                                                                                                                                                                                                                                                                                         |
| Gross Weight            | 6.35 kg                                                                                                                                                                                                                                                                                                   |
| Environmental           |                                                                                                                                                                                                                                                                                                           |
| Operating Temperature   | -10°C ~ 55°C (J1900), -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                                                                                                                                                                                                                                                                                 |
| Anti-Vibration          | 1 Grms / 5~ 500Hz / operation – with HDD                                                                                                                                                                                                                                                                  |
| Certification           | 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             | 16.7M (8 bit/color)                                                                                                                                                                                                                                                                                       |
| Luminance               | 450 cd/m <sup>2</sup>                                                                                                                                                                                                                                                                                     |
| Viewing Angle           | 160° (H), 140° (V)                                                                                                                                                                                                                                                                                        |
| Back Light              | LED                                                                                                                                                                                                                                                                                                       |
| Back Light MTBF (hours) | —                                                                                                                                                                                                                                                                                                         |
| Touchscreen             |                                                                                                                                                                                                                                                                                                           |
| Type                    | P-CAP/ 5-wire resistive                                                                                                                                                                                                                                                                                   |
| Light Transmission      | P-CAP (≥85%), 5-wire Resistive (80% ± 2%)                                                                                                                                                                                                                                                                 |

# OMNI-3155-BT

## 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                |
|--------------------------|--------------|----------------|-----------------------|-----------------|------------------------|-----|---------|---------|----------------|---------------------------------|-------------------|---------|---------------------------------------|-----------------------|----------|-------------------------|----------------------|
| OMNI-3155HTT-BT-A1-1010  | 15" TFT LCD  | 1024 x 768     | 450 cd/m <sup>2</sup> | 160°(H) 140°(V) | Intel® J1900, 2 GHz    | 2   | 1       | 3       | 1              | CFast™ x 1<br>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-3155HTT-BT-A2-1010  | 15" TFT LCD  | 1024 x 768     | 450 cd/m <sup>2</sup> | 160°(H) 140°(V) | Intel® N2807, 1.58 GHz | 2   | 1       | 3       | 1              | CFast™ x 1<br>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-3155HTT-BT-A3-1010  | 15" TFT LCD  | 1024 x 768     | 450 cd/m <sup>2</sup> | 160°(H) 140°(V) | Intel® J1900, 2 GHz    | 2   | 1       | 3       | 1              | CFast™ x 1<br>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-3155HTT-BT-A4-1010  | 15" TFT LCD  | 1024 x 768     | 450 cd/m <sup>2</sup> | 160°(H) 140°(V) | Intel® N2807, 1.58 GHz | 2   | 1       | 3       | 1              | CFast™ x 1<br>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 |
| OMNI-315DHTT-KIT-A1-1010 | 15" TFT LCD  | 1024 x 768     | 450 cd/m <sup>2</sup> | 160°(H) 140°(V) | —                      | —   | —       | —       | —              | —                               | —                 | —       | —                                     | —                     | —        | -10°C~60°C with airflow | 5-wire Resistive     |
| OMNI-315DHTT-KIT-A2-1010 | 15" TFT LCD  | 1024 x 768     | 450 cd/m <sup>2</sup> | 160°(H) 140°(V) | —                      | —   | —       | —       | —              | —                               | —                 | —       | —                                     | —                     | —        | -10°C~60°C with airflow | Projected Capacitive |
| OMNI-BT-KIT-A1-1010      | —            | —              | —                     | —               | Intel® J1900, 2 GHz    | 2   | 1       | 3       | 1              | CFast™ x 1<br>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<br>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-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)
- **1255901202**  
19V 120W Power Adapter w/ 3p phoenix block
- **9741315501**  
Panel Mount Kit for OMNI-3155-BT
- **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**  
DIOx16 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.

Note: All specifications are subject to change without notice.