

# OMNI-3155-ADN

15" Modular HMI Panel PC With Intel® Processor N-series Processors

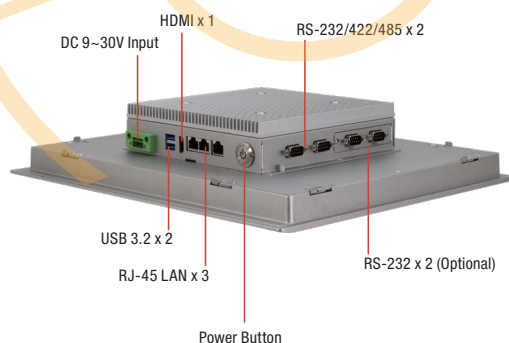
Front View



Top View

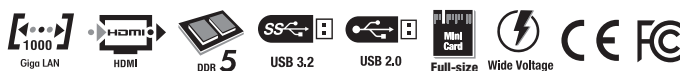


Bottom View



## Features

- 15" (1024 x 768) TFT LCD Display
- Intel® Processor N-series Processors
- Projected Capacitive Multi Touch
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation
- VESA Mount/Built-in Panel Mount Bracket
- 9-30V DC in a wide range of input



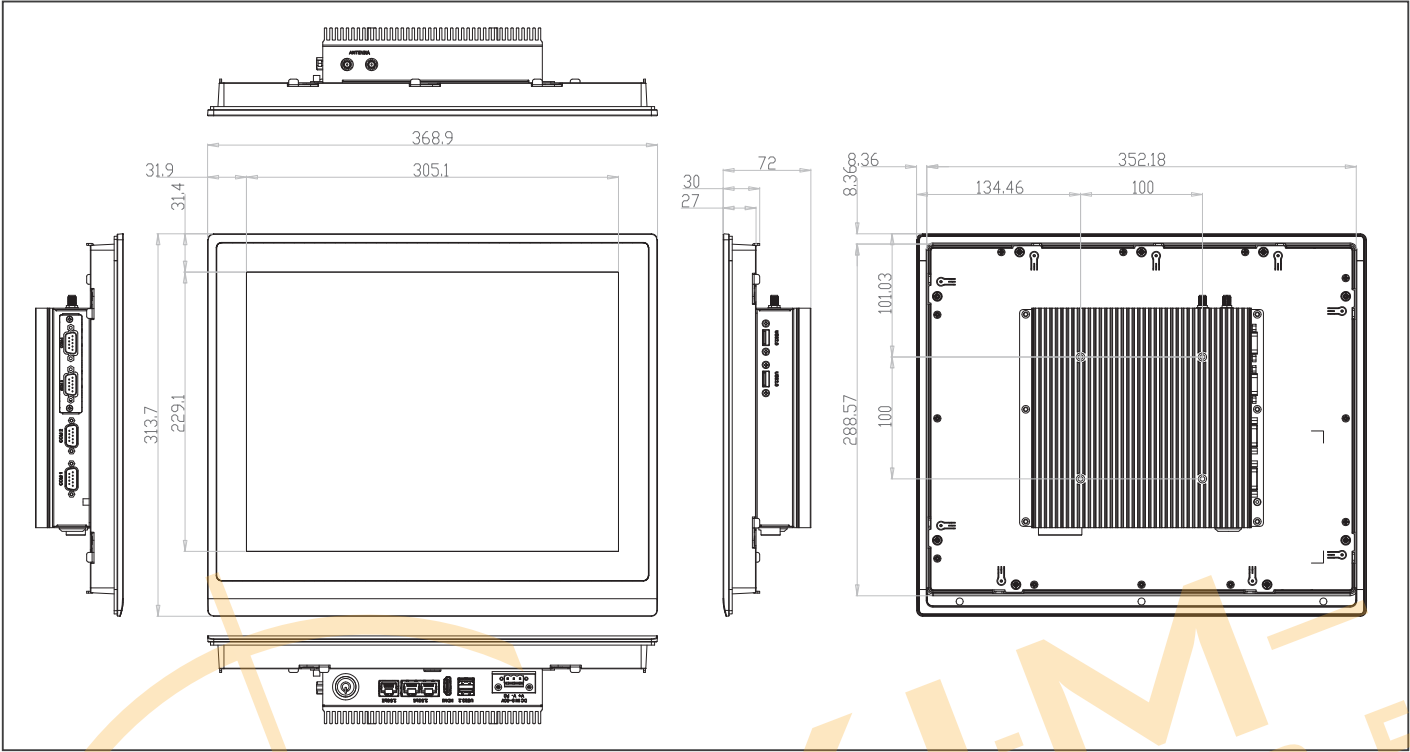
## Specifications

| System                  |                                                                                                                                                                                                                             |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Processor               | Intel® Processor N50<br>Intel® Processor N97                                                                                                                                                                                |
| System Memory           | DDR5 4800 MHz, up to 16GB SODIMM x 1                                                                                                                                                                                        |
| LCD/CRT Controller      | CPU Integrated                                                                                                                                                                                                              |
| Ethernet                | Intel® Ethernet Controller I226, 2.5GbE LAN x 3                                                                                                                                                                             |
| I/O Port                | USB 3.2 Gen 2 (Type-A) x 2<br>USB 2.0 x 2 via Cables<br>DB-9 x 2 (RS-232/422/485, set by BIOS)<br>HDMI 1.4b x 1<br>2.5GbE RJ-45 x 3<br>9V ~ 30V 3-pin DC Terminal Block Connector<br>Power on/off Switch with LED Light x 1 |
| Storage Disk Drive      | 2.5" SATA Drive Bay x 1 (SATA 6Gb/s)<br>Full-size mPCIe (PCIe [x1]/SATA)                                                                                                                                                    |
| Expansion Slot          | M.2 3052 B-Key x 1 with Nano SIM<br>M.2 2230 E-Key x 1                                                                                                                                                                      |
| OS support              | Windows® 10 IoT Enterprise LTSC 2021<br>Windows® 10/11                                                                                                                                                                      |
| Mechanical              |                                                                                                                                                                                                                             |
| Construction            | Aluminum Front Bezel + Metal Chassis                                                                                                                                                                                        |
| Mounting                | Panel Mount/VESA Mount (VESA 100)                                                                                                                                                                                           |
| Dimension               | 14.5" x 12.4" x 2.8" (368.9mm x 313.7mm x 72mm)                                                                                                                                                                             |
| Carton Dimension        | 20.1" x 9.8" 18.1" (510mm x 250mm x 460mm)                                                                                                                                                                                  |
| Gross Weight            | 8.9lb (4.05Kg)                                                                                                                                                                                                              |
| Environmental           |                                                                                                                                                                                                                             |
| Operating Temperature   | -4°F ~ 122°F (-20°C ~ 50°C) with 0.7m/s airflow                                                                                                                                                                             |
| Storage Temperature     | -4°F ~ 140°F (-20°C ~ 60°C)                                                                                                                                                                                                 |
| Storage Humidity        | 90% @40°C; non-condensing                                                                                                                                                                                                   |
| Vibration               | 1Grms /5~500Hz/ operation - with mSATA                                                                                                                                                                                      |
| Shock                   | 15G peak acceleration (11 m sec. duration) with mSATA                                                                                                                                                                       |
| EMC                     | CE/FCC Class A                                                                                                                                                                                                              |
| Power Supply            |                                                                                                                                                                                                                             |
| DC input                | DC 9~30V                                                                                                                                                                                                                    |
| LCD                     |                                                                                                                                                                                                                             |
| Display Type            | 15" TFT-LCD, LED                                                                                                                                                                                                            |
| Max Resolution          | 1024 (H) x 768 (V)                                                                                                                                                                                                          |
| Max. Colors             | 16.2M (8 bit/color)                                                                                                                                                                                                         |
| Luminance               | 300 cd/m²                                                                                                                                                                                                                   |
| Viewing Angle           | 176° (H) x 176° (V)                                                                                                                                                                                                         |
| Back Light              | LED                                                                                                                                                                                                                         |
| Back Light MTBF (Hours) | 70,000                                                                                                                                                                                                                      |
| Touchscreen             |                                                                                                                                                                                                                             |
| Type                    | Projected Capacitive Multi-Touch                                                                                                                                                                                            |
| Light Transmission      | 90%                                                                                                                                                                                                                         |



## Dimension

Unit: mm



## 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-3155HTT-ADN-A1-1010 | 15" TFT LCD  | 1024 x 768     | 300 cd/m <sup>2</sup> | 176°(H)/176°(V) | Intel® Processor N50 | 3   | USB 3.2 x 2<br>USB 2.0 x 2 | 2              | SATA-III x1 (6 Gb/s, for 2.5" SATA drive bay)<br>Full Size mPCIe (Support PCIe(x1) / SATA) | DDR5, up to 16GB | HDMI x1 | M.2 B-Key 3052 x1 with Nano SIM<br>M.2 E-Key 2230 x1 | VESA / Panel Mount | DC 9~30V | -20°C~50°C with air flow | Projective Touch |
| OMNI-3155HTT-ADN-A1-1010 | 15" TFT LCD  | 1024 x 768     | 300 cd/m <sup>2</sup> | 176°(H)/176°(V) | Intel® Processor N97 | 3   | USB 3.2 x 2<br>USB 2.0 x 2 | 2              | SATA-III x1 (6 Gb/s, for 2.5" SATA drive bay)<br>Full Size mPCIe (Support PCIe(x1) / SATA) | DDR5, up to 16GB | HDMI x1 | M.2 B-Key 3052 x1 with Nano SIM<br>M.2 E-Key 2230 x1 | VESA / Panel Mount | DC 9~30V | -20°C~50°C with air flow | Projective Touch |

## Packing List

- Phoenix Power Connector
- OMNI-3155-ADN
- 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)
- 1255900849  
12V 84W Power Adapter

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All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.

Please contact us if you have any questions about the contents of the datasheet.

This may not be the latest version of the datasheet. Please check with us if a later version is available.





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