

# AFL3 Apollo Lake with PoE

## Intelligent PoE Management System

### Features

- W7" light industrial interactive panel PC
- 12V DC input with lockable DC jack
- Selectable AT/ATX power mode
- Built-in speakers
- Support PoE PD IEEE803.2 af/at
- IP65 compliant front panel
- Touch screen with anti-UV / anti-glare coating
- Support Auto Flow Control over RS-485



### Specifications

**New**

| Model                  |                                                       | AFL3-W07A-AL                                                                                                                                                     | AFL3-W07A-AL2                                                                                                                                                                             |
|------------------------|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LCD                    | Size                                                  | 7"                                                                                                                                                               |                                                                                                                                                                                           |
|                        | Resolution                                            | 1024 x 600 (16:9)                                                                                                                                                |                                                                                                                                                                                           |
|                        | Brightness (cd/m <sup>2</sup> )                       | 500                                                                                                                                                              |                                                                                                                                                                                           |
|                        | Contrast Ratio                                        | 700:1                                                                                                                                                            |                                                                                                                                                                                           |
|                        | Viewing Angle (H-V)                                   | 150 / 145                                                                                                                                                        |                                                                                                                                                                                           |
|                        | Backlight MTBF                                        | 20000                                                                                                                                                            |                                                                                                                                                                                           |
| Touch                  | Touch Screen                                          | PCAP with USB interface (anti-UV/AG coating)                                                                                                                     |                                                                                                                                                                                           |
|                        | Touch Controller                                      | EETI 80H60                                                                                                                                                       |                                                                                                                                                                                           |
| Mainboard              | CPU                                                   | Intel® Celeron N3350 (2M Cache, up to 2.4 GHz) TDP 6W                                                                                                            |                                                                                                                                                                                           |
|                        | RAM                                                   | one 204-pin 1866MHz DDR3L DIMMs support up to 8GB                                                                                                                |                                                                                                                                                                                           |
|                        | Ethernet                                              | LAN1: Intel® I211 + LAN2: Intel® I211                                                                                                                            | LAN1: Intel® I211                                                                                                                                                                         |
|                        | Audio Codec                                           | ALC888S                                                                                                                                                          |                                                                                                                                                                                           |
| Storage                |                                                       | 1 x M.2 B+M key 2242 slot (USB/SATA signal)                                                                                                                      |                                                                                                                                                                                           |
| I/O Ports & Switch     |                                                       | 2 x GbE LAN<br>2 x USB 3.2 Gen 1 (5Gb/s)<br>2 x USB 2.0<br>1 x 12V DC Jack<br>1 x power switch<br>1 x Reset button<br>1 x Clear CMOS button<br>1 x AT/ATX switch | 1 x GbE LAN<br>2 x USB 3.2 Gen1 (5Gb/s)<br>1 x RS232/422/485 (by DB9)<br>1 x HDMI<br>1 x 12 DC Jack<br>1 x power switch<br>1 x Reset button<br>1 x Clear CMOS button<br>1 x AT/ATX switch |
|                        |                                                       |                                                                                                                                                                  |                                                                                                                                                                                           |
| PoE IEEE802.3 standard |                                                       | On board PoE at                                                                                                                                                  |                                                                                                                                                                                           |
| Audio                  |                                                       | AMP 2W (internal speaker)                                                                                                                                        |                                                                                                                                                                                           |
| Wireless & Bluetooth   |                                                       | IEEE 802.11 a/b/g/n/ac, Bluetooth V4.1<br>M.2 slot A+E key 2230 slot (PCIe/USB signal)                                                                           |                                                                                                                                                                                           |
| Physical               | Construction Front Panel                              | PC + ABS Plastic                                                                                                                                                 |                                                                                                                                                                                           |
|                        | Mounting                                              | Panel, Wall, Stand and Arm VESA 75mm x 75mm                                                                                                                      |                                                                                                                                                                                           |
|                        | Color                                                 | Black C                                                                                                                                                          |                                                                                                                                                                                           |
|                        | Dimensions (W x H x D )(mm)                           | 191 x 127 x 43                                                                                                                                                   |                                                                                                                                                                                           |
|                        | Cut-out Dimensions (W x H)                            | 182 x 111                                                                                                                                                        |                                                                                                                                                                                           |
|                        | Net/Gross Weight (kgs)                                | 0.73/1.81                                                                                                                                                        |                                                                                                                                                                                           |
| Environment            | Operating Temperature (°C)<br>(Ambient with air flow) | minus -20°C~50°C                                                                                                                                                 |                                                                                                                                                                                           |
|                        | Storage Temperature (°C)                              | minus -20°C~60°C                                                                                                                                                 |                                                                                                                                                                                           |
|                        | Humidity                                              | 10% to 95% (non-condensing)                                                                                                                                      |                                                                                                                                                                                           |
|                        | IP Level                                              | IP 65 compliant front panel                                                                                                                                      |                                                                                                                                                                                           |
|                        | Safety&EMC                                            | CE / FCC class A                                                                                                                                                 |                                                                                                                                                                                           |
|                        | Thermal Solution                                      | Fanless                                                                                                                                                          |                                                                                                                                                                                           |
| Power                  | Power Requirement                                     | 12V/3A                                                                                                                                                           |                                                                                                                                                                                           |
| ErP                    |                                                       | ErP 2009/125/EC                                                                                                                                                  |                                                                                                                                                                                           |

# AFL3 Apollo Lake with PoE

## Intelligent PoE Management System

### Features

- W7"~ W15.6" light industrial interactive panel PC
- 9 V ~ 30 V wide range DC input with lockable DC jack
- Selectable AT/ATX power mode
- Built-in speakers
- Support PoE PD IEEE803.2 af/at/bt
- IP64/IP65 compliant front panel
- Touch screen with anti-UV / anti-glare coating
- Support Auto Flow Control over RS-485



### Specifications

| Model                  |                                                    | AFL3-W10A-AL                                                                                                                                                                                                                                                                                      | AFL3-12A-AL                                                                                           | AFL3-W15A-AL      |
|------------------------|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------|
| LCD                    | Size                                               | 10.1"                                                                                                                                                                                                                                                                                             | 12.1"                                                                                                 | 15.6"             |
|                        | Resolution                                         | 1280 x 800 (16:10)                                                                                                                                                                                                                                                                                | 1024 x 768 (4:3)                                                                                      | 1366 x 768 (16:9) |
|                        | Brightness (cd/m²)                                 | 350                                                                                                                                                                                                                                                                                               | 500                                                                                                   | 300               |
|                        | Contrast Ratio                                     | 800:1                                                                                                                                                                                                                                                                                             | 700:1                                                                                                 | 500:1             |
|                        | Viewing Angle (H-V)                                | 170 / 170                                                                                                                                                                                                                                                                                         | 160 / 160                                                                                             | 170 / 160         |
|                        | Backlight MTBF                                     | 15000                                                                                                                                                                                                                                                                                             | 50000                                                                                                 | 50000             |
| Touch                  | Touch Screen                                       | PCAP with USB interface (anti-UV/anti-glare coating)                                                                                                                                                                                                                                              |                                                                                                       |                   |
|                        | Touch Controller                                   | EXC3146                                                                                                                                                                                                                                                                                           | EXC3146                                                                                               | EXC3160           |
| Mainboard              | CPU                                                | Apollo lake Intel® Celeron® Processor J3455 (2M Cache, up to 2.3 GHz) TDP 10W                                                                                                                                                                                                                     |                                                                                                       |                   |
|                        | RAM                                                | one 204-pin 1866MHz DDR3L DIMMs support up to 8GB                                                                                                                                                                                                                                                 |                                                                                                       |                   |
|                        | Ethernet                                           | LAN1: Intel® I211 + LAN2: Intel® I211                                                                                                                                                                                                                                                             |                                                                                                       |                   |
|                        | Audio Codec                                        | ALC888S                                                                                                                                                                                                                                                                                           |                                                                                                       |                   |
| Storage                |                                                    | 1 x M.2 B+M key 2242 slot (USB/SATA signal)                                                                                                                                                                                                                                                       | *1 x 2.5" SATA 3Gb/s HDD bay (optional one of the two)<br>1 x M.2 B+M key 2242 slot (USB/SATA signal) |                   |
| I/O Ports & Switch     |                                                    | 1 x RS-232/422/485 by RJ45 (Support Auto Flow Control over RS-485)<br>1 x RS-232 by DP9<br>2 x GbE LAN<br>2 x USB 3.2 Gen 1 (5Gb/s)<br>2 x USB 2.0<br>1 x HDMI output<br>1 x 9V~30V DC Jack<br>1 x power switch<br>1 x Line out<br>1 x Reset button<br>1 x Clear CMOS button<br>1 x AT/ATX switch |                                                                                                       |                   |
| E-Window expansion     |                                                    | N/A                                                                                                                                                                                                                                                                                               | Yes , optional<br>1 x M.2 B+M key 2242 slot (USB/SATA signal)                                         |                   |
| PoE IEEE802.3 standard |                                                    | Yes (option single channel)                                                                                                                                                                                                                                                                       |                                                                                                       |                   |
| Audio                  |                                                    | AMP 2W + 2W                                                                                                                                                                                                                                                                                       | AMP 3W + 3W (internal speaker)                                                                        |                   |
| Camera / Microphone    |                                                    | 2-megapixel with low light function, digital microphone                                                                                                                                                                                                                                           |                                                                                                       |                   |
| Wireless & Bluetooth   |                                                    | IEEE 802.11 a/b/g/n/ac, Bluetooth V4.1<br>M.2 slot A+E key 2230 slot (PCIe/USB signal)                                                                                                                                                                                                            |                                                                                                       |                   |
| Physical               | Construction Front Panel                           | PC + ABS Plastic                                                                                                                                                                                                                                                                                  |                                                                                                       |                   |
|                        | Mounting                                           | Panel, Wall, Stand and Arm VESA 75mm x 75mm                                                                                                                                                                                                                                                       | Panel, Wall, Stand and Arm VESA 75mm x 75mm, 100mm x 100mm                                            |                   |
|                        | Color                                              | Black C                                                                                                                                                                                                                                                                                           |                                                                                                       |                   |
|                        | Dimensions (W x H x D )(mm)                        | 262 x 181 x 42                                                                                                                                                                                                                                                                                    | 304 x 243 x 44                                                                                        | 396 x 250 x 53    |
|                        | Cut-out Dimensions (W x H)                         | 236 x 149                                                                                                                                                                                                                                                                                         | 243 x 205                                                                                             | 273 x 226         |
|                        | Net/Gross Weight (kgs)                             | 1.06/2.58                                                                                                                                                                                                                                                                                         | 1.92/3.95                                                                                             | 3.3/5.6           |
| Environment            | Operating Temperature (°C) (Ambient with air flow) | minus -20°C~50°C                                                                                                                                                                                                                                                                                  |                                                                                                       |                   |
|                        | Storage Temperature (°C)                           | minus -20°C~60°C                                                                                                                                                                                                                                                                                  |                                                                                                       |                   |
|                        | Humidity                                           | 10% to 95% (non-condensing)                                                                                                                                                                                                                                                                       |                                                                                                       |                   |
|                        | IP Level                                           | IP 64 compliant front panel                                                                                                                                                                                                                                                                       |                                                                                                       |                   |
|                        | Safety&EMC                                         | CE / FCC class A                                                                                                                                                                                                                                                                                  |                                                                                                       |                   |
|                        | Thermal Solution                                   | Fanless                                                                                                                                                                                                                                                                                           |                                                                                                       |                   |
| Power                  | Power Requirement                                  | 9~30V , 4~1,2A                                                                                                                                                                                                                                                                                    | 9~30V , 6.67~2A                                                                                       | 9~30V , 6.67~2A   |
| ErP                    |                                                    | ErP 2009/125/EC                                                                                                                                                                                                                                                                                   |                                                                                                       |                   |

\*the 2.5" HDD bay must be removed if one chooses to install the PoE PD module, and vice versa

## Ordering Information

| Part No.                     | Description                                                                                                                                                                                                        |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AFL3-W07A-AL-N1/P/PC/4G-R10  | 7" 500cd/m <sup>2</sup> 1024 x 600 Panel PC with Intel® Celeron® Processor N3350 (6W) on-board Processor , on-board POE at, 1*4GB DDR3L , 802.11a/b/g/n/ac WiFi module, PCAP touch, R10                            |
| AFL3-W07A-AL-N2/P/PC/4G-R10  | 7" 500cd/m <sup>2</sup> 1024 x 600 Panel PC with Intel® Celeron® Processor N3350 (6W) on-board Processor , w/COM , on-board POE at, 1*4GB DDR3L , WiFi module, PCAP touch, R10                                     |
| AFL3-W10A-AL-J2/P/PC/4G-R10  | 10.1" 350cd/m <sup>2</sup> 1280 x 800 Panel PC with Intel® Celeron® Processor J3455 (10W) on-board Processor, POE option, 1*4GB DDR3L , 802.11a/b/g/n/ac WiFi module, PCAP touch, 2M camera, microphone, R10       |
| *AFL3-12A-AL-J2/P/PC/4G-R10  | 12.1"500 cd/m <sup>2</sup> 1024 x 768 Panel PC with Intel® Celeron® Processor J3455 (10W) on-board Processor, POE option, 1*4GB DDR3L , 802.11a/b/g/n/ac WiFi module, PCAP touch, 2M camera, microphone, R10       |
| *AFL3-W15A-AL-J2/P/PC/4G-R10 | Wide 15.6" 300 cd/m <sup>2</sup> 1366 x 768 Panel PC with Intel® Celeron® Processor J3455 (10W) on-board Processor, POE option, 1*4GB DDR3L , 802.11a/b/g/n/ac WiFi module, PCAP touch, 2M camera, microphone, R10 |
| AFL3-PD-BT01-KIT01-R10       | PoE PD IEEE802.3 af/at/bt module kit , only for AFL3-xxx-AL optional (W10A/12A/W15A), R10                                                                                                                          |

\*the 2.5" HDD bay must be removed if one chooses to install the PoE PD module, and vice versa

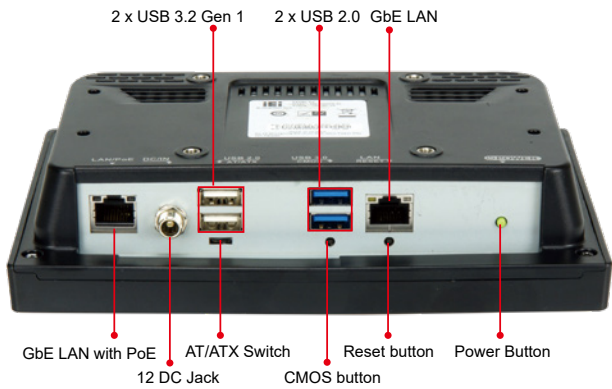
## Options

| Item                                   | AFL3-W07A-AL              | AFL3-W07A-AL2          | AFL3-W10A-AL           | AFL3-12A-AL                              | AFL3-W15A-AL                             |
|----------------------------------------|---------------------------|------------------------|------------------------|------------------------------------------|------------------------------------------|
| Panel Mounting Kit                     | AFL3PK-W07A-R11           | AFL3PK-W07A-R11        | AFL3PK-08A-R10         | AFL3PK-08A-R10                           | AFL3PK-W15A-R10                          |
| Wall Mounting Kit                      | AFLWK-12                  | AFLWK-12               | AFLWK-12               | AFLWK-19B                                | AFLWK-19B                                |
| Rack Mounting Kit                      | AFL3RK-W07A-R11           | AFL3RK-W07A-R11        | AFL3RK-W10A-R10        | AFL3RK-12A-R10                           | AFL3RK-W15A-R11                          |
| Arm                                    | ARM-11-RS/ARM-31-RS       | ARM-11-RS/ARM-31-RS    | ARM-11-RS/ARM-31-RS    | ARM-11-RS/ARM-31-RS                      | ARM-11-RS/ARM-31-RS                      |
| Stand                                  | STAND-B08/STAND-100-RS    | STAND-B08/STAND-100-RS | STAND-C12-R10          | STAND-A12-RS/STAND-C12-R10/ STAND-100-RS | STAND-A12-RS/STAND-C12-R10/ STAND-100-RS |
| V-Stand                                | VSTAND-A07-R1             | VSTAND-A07-R1          | VSTAND-A10-R11         | VSTAND-A12-R11                           |                                          |
| Magnetic Card Reader                   | AFL3P-W7MSR-U-R10         | AFL3P-W7MSR-U-R10      | AFL3P-W10MSR-U-R10     | AFL3P-W10MSR-U-R10                       | AFL3P-W10MSR-U-R10                       |
| Barcode Scanner                        | N/A                       | N/A                    | AFL3-2D-R11            | AFL3-2D-R11                              | AFL3-2D-R11                              |
| RFID Reader<br>(13.56 MHz Mifare Type) | N/A                       | N/A                    | AFL3-MF-RFID-KIT03-R10 | AFL3-MF-RFID-KIT03-R10                   | AFL3-MF-RFID-KIT03-R10                   |
| OS: Win 10 IOT Enterprise (64-bit)     | AFL3-W07A-AL-W10E64-E-R10 |                        |                        |                                          |                                          |
| PoE PD module                          | N/A                       | N/A                    | AFL3-PD-BT01-KIT01-R10 | AFL3-PD-BT01-KIT01-R10                   | AFL3-PD-BT01-KIT01-R10                   |

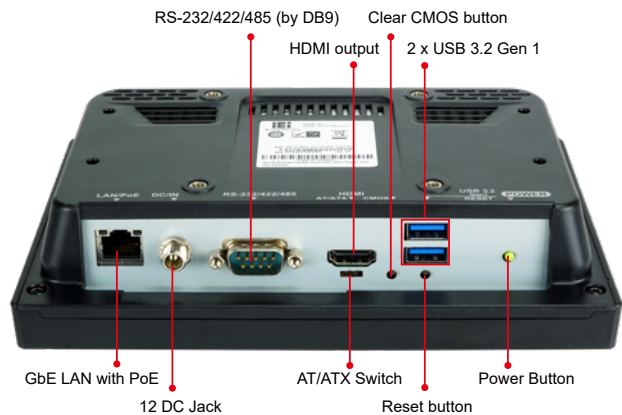
## Packing List

| Item                                  | Part No.            | Q'ty | Remark                                                                                         |
|---------------------------------------|---------------------|------|------------------------------------------------------------------------------------------------|
| Setting kit                           | 46003-002600-RS     | 2    |                                                                                                |
| Round head machine screw              | 44003-020041-RS     | 2    | M2*4 round head machine screw                                                                  |
|                                       | 44003-020041-RS     | 4    | M2*4 round head machine screw                                                                  |
| Pan head machine screw                | 44403-040061-RS     | 4    | M4*6 pan head machine screw                                                                    |
| Fix holder                            | 46003-009500-RS     | 2    |                                                                                                |
| Power cord                            | 32702-000400-200-RS | 1    |                                                                                                |
| Power adapter                         | 63040-010036-210-RS | 1    | Vin:90~264VAC;36W , Vout:12VDC;Φ2.5/Φ5.5/lock<br>(AFL3-W07A-AL / AFL3-W07A-AL2 / AFL3-W10A-AL) |
|                                       | 63040-010060-211-RS | 1    | Vin:90~264VAC;36W , Vout:12VDC;Φ2.5/Φ5.5/lock<br>(AFL3-12A-AL / AFL3-W15A-AL)                  |
| RJ-45 to DB-9 COM port transfer cable | 32005-004600-100-RS | 1    | 300mm, 26AWG,<br>(A) D-SUB 9 male, (B) RJ-45                                                   |

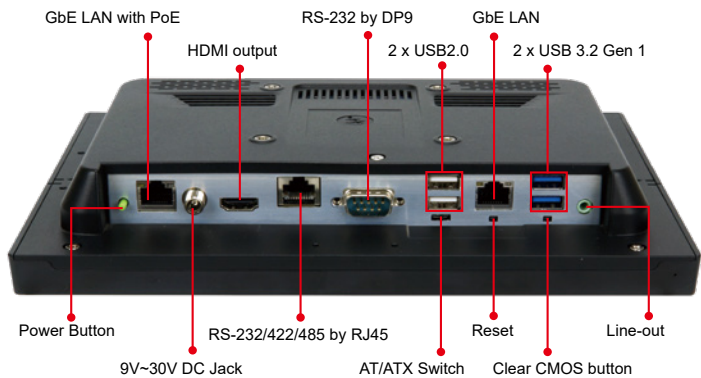
**AFL3-W07A-AL**  
*Fully Integrated I/O*



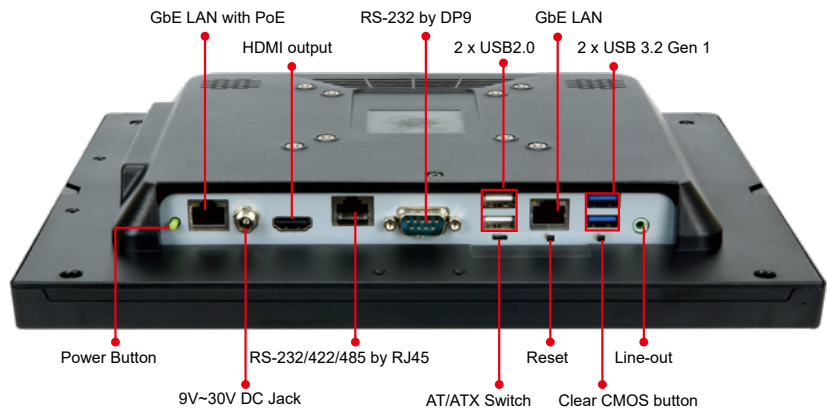
**AFL3-W07A-AL2**  
*Fully Integrated I/O*



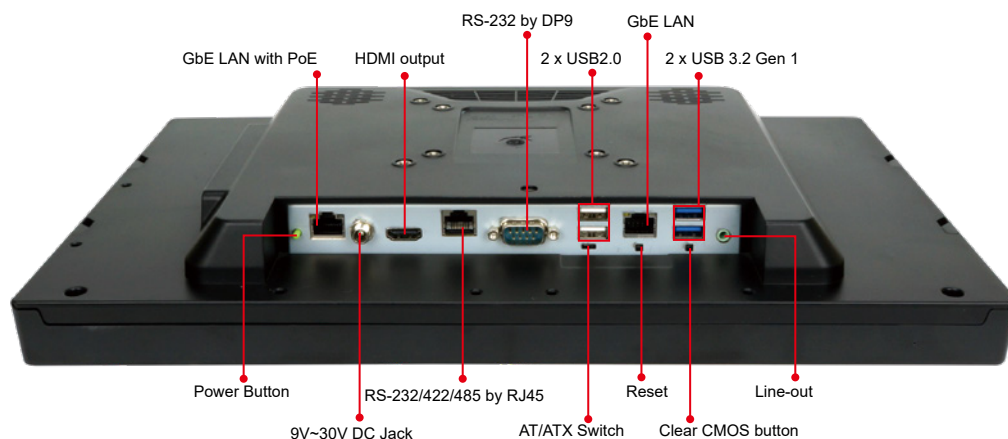
**AFL3-W10A-AL**  
*Fully Integrated I/O*



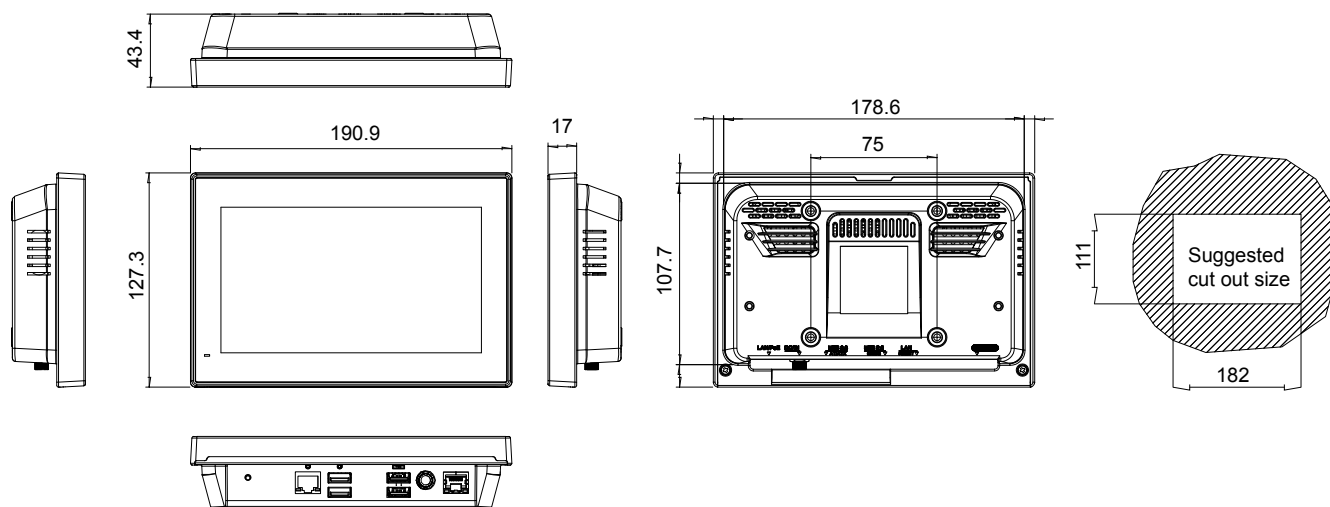
**AFL3-12A-AL**  
*Fully Integrated I/O*



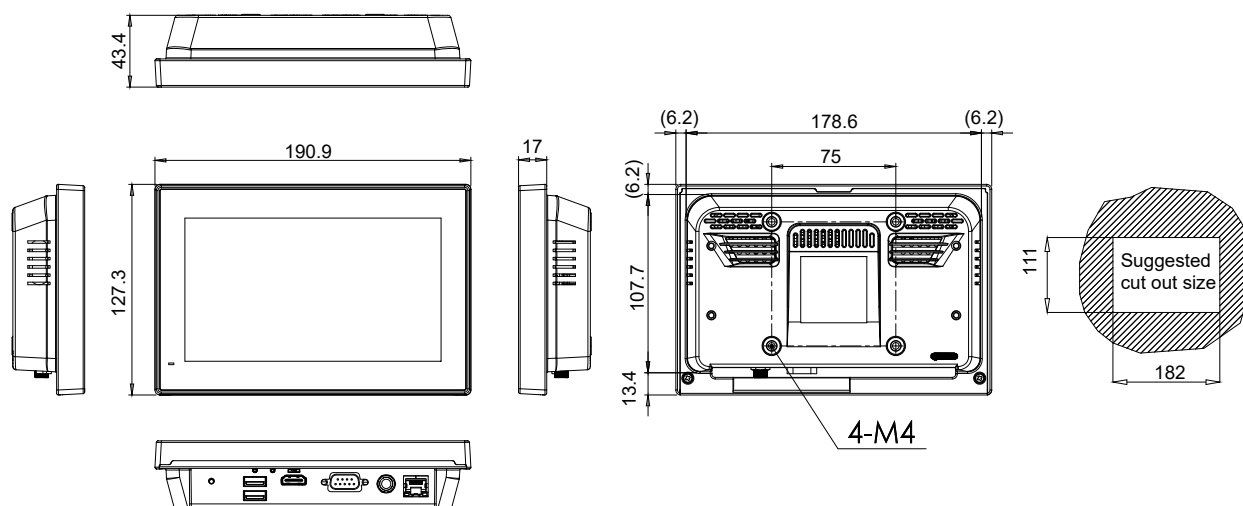
## AFL3-W15A-AL Fully Integrated I/O



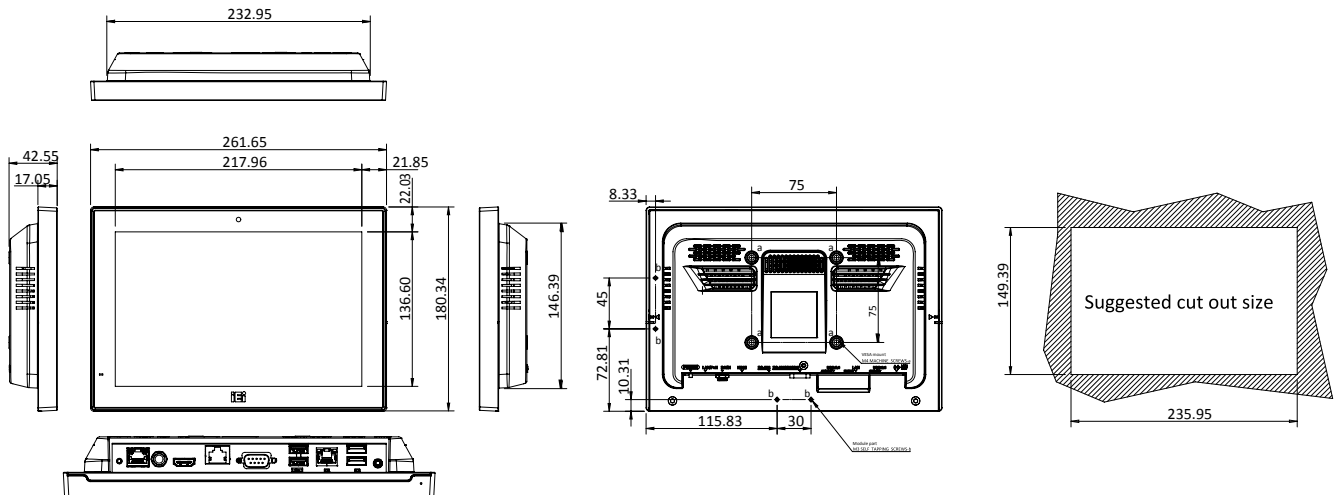
### AFL3-W07A-AL Dimensions (Unit: mm)



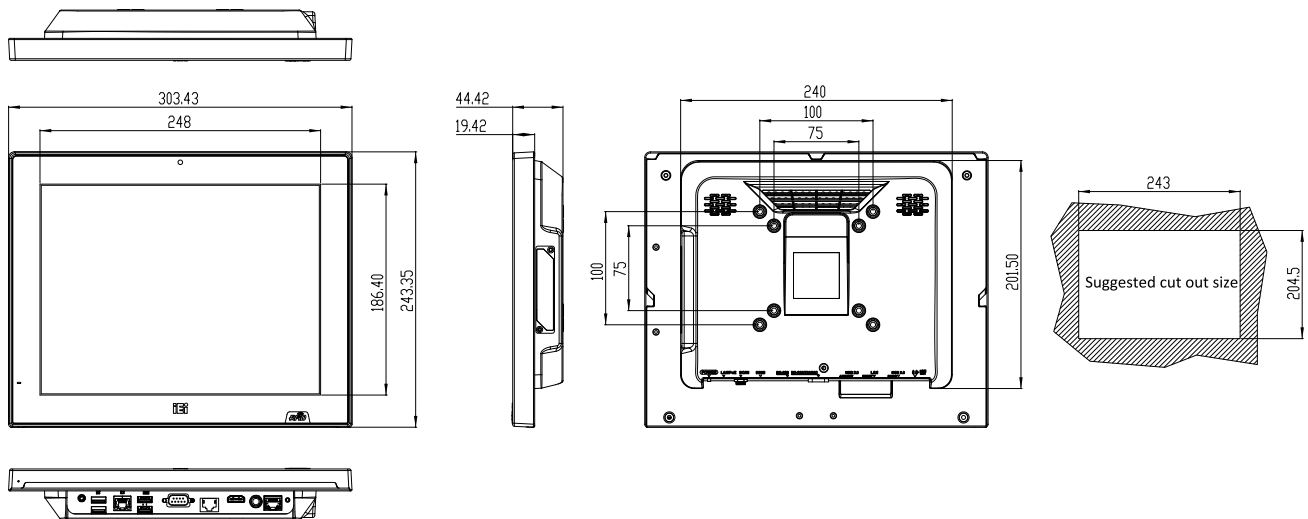
### AFL3-W07A-AL2 Dimensions (Unit: mm)



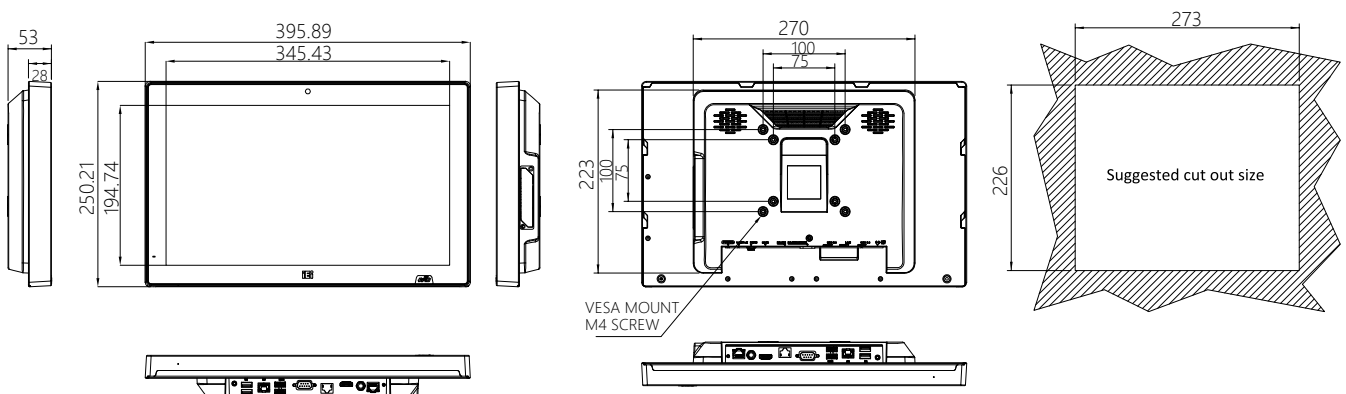
### AFL3-W10A-AL Dimensions (Unit: mm)



### AFL3-12A-AL Dimensions (Unit: mm)



### AFL3-W15A-AL Dimensions (Unit: mm)



# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

IEI:

[AFL3-12A-AL-J2/P/PC/4G-R10](#)