

## SHIELD-215

21.5" stainless steel waterproof Panel PC with Intel® Amston Lake Processor



## Features

- » Intel Atom® X7433RE / X7835RE Processor
- » 10~28V wide voltage input
- » 304 stainless steel housing
- » Pre-installed with high-performance 8GB DDR5 memory, up to 16GB
- » Optional WiFi 6E and Bluetooth® 5.2
- » Optional High-speed transmission fiber optic module
- » M12 fully waterproof interface

## Specifications

| System                   |                                                                                                                                                                                                    |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CPU                      | Intel Atom® x7433RE Processor 6M Cache, up to 3.40 GHz / TDP 9w<br>Intel Atom® x7835RE Processor 6M Cache, up to 3.40 GHz / TDP 12w                                                                |
| Memory Ext.              | 1 x SO-DIMM DDR5-4800, up to 16GB (Pre-installed 8GB) (ECC supported)                                                                                                                              |
| Storage                  | 1 x M-Key 2280 (PCIe Gen3 x2) for M.2 SSD<br>1 x 128GB EMMC (optional)                                                                                                                             |
| Communication            |                                                                                                                                                                                                    |
| Wireless                 | IEEE 802.11ax 2T2R module (Wi-Fi 6E) with BT v5.2 (optional)                                                                                                                                       |
| I/O Interface            |                                                                                                                                                                                                    |
| Ethernet                 | 2 x 2.5GbE LAN via Intel I226-IT                                                                                                                                                                   |
| Expansion                | 1 x M.2 M-Key 2242/2280 (PCIe Gen3 x1 + SATA)<br>1 x M.2 B-Key 3052/3080 (PCIe Gen3 x1 + USB 3.0 x1)<br>1 x NANO-SIM<br>1 x M.2 E-key 2230 (PCIe Gen3 x1 + USB 2.0 x1) for optional WIFI/BT module |
| Power                    |                                                                                                                                                                                                    |
| Power Supply             | DC 10~28V                                                                                                                                                                                          |
| Environment              |                                                                                                                                                                                                    |
| Operating Temperature    | -30°C~55°C@50%RH                                                                                                                                                                                   |
| Safety & EMC             | CE, FCC (Class A)                                                                                                                                                                                  |
| Humidity                 | 10% ~ 90% (non-condensing)                                                                                                                                                                         |
| Storage Temperature      | -40°C ~ 70°C                                                                                                                                                                                       |
| IP Level                 | Fully IP66                                                                                                                                                                                         |
| Physical Characteristics |                                                                                                                                                                                                    |
| Color                    | silver                                                                                                                                                                                             |
| Mounting                 | Yoke / VESA 100mm                                                                                                                                                                                  |
| LCD                      |                                                                                                                                                                                                    |
| Size                     | 21.5"                                                                                                                                                                                              |
| Resolution               | 1920 x 1080 (16:9)                                                                                                                                                                                 |
| Brightness (cd/m2)       | 500 cd/m <sup>2</sup>                                                                                                                                                                              |
| Contrast Ratio           | 1000 : 1                                                                                                                                                                                           |
| LCD Color                | 16.7M                                                                                                                                                                                              |
| Pixel Pitch (mm)         | 0.248 (H) x 0.248 (V)                                                                                                                                                                              |
| Viewing Angle (H-V)      | 178°/178°                                                                                                                                                                                          |
| Backlight MTBF           | 50000 hours                                                                                                                                                                                        |
| Touch                    |                                                                                                                                                                                                    |

|                  |                                              |
|------------------|----------------------------------------------|
| Touch Screen     | PCAP with USB interface (anti-UV/AR coating) |
| Touch Controller | ILI2520                                      |
| Other Features   |                                              |
| Camera           | 1 x Camera (Wide-viewing angle)              |
| I/O Interface    |                                              |
| I/O Interface    | 1 x CAN-bus (with 2.0 kV isolation)          |
|                  | 1 x DC Input Jack                            |
|                  | 1 x GPIO (with SMBus (1.6 KV isolation))     |
|                  | 1 x HDMI™ (1.4b)                             |
|                  | 2 x LAN (2.5GbE)                             |
|                  | 1 x Power Switch                             |
|                  | 1 x RS-232 (with 2.0 kV isolation)           |
|                  | 1 x RS-232/422/485 (with 2.0 kV isolation)   |
|                  | 1 x USB 2.0                                  |
|                  | 1 x USB 3.2 Gen1x1                           |

## Ordering Information

|                    |                                                                                                                                                                                                                       |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SHIELD-215-R4C-R10 | 21.5" 500cd/m² 1920x1080 Panel PC with Intel® Atom x7835RE Processor, TDP 12W, Preinstalled with 8GB DDR5, PCAP touch, 10~28V DC, 304 Stainless Steel Chassis, Full Body IP66 Rated With Water-Proof Connectors , R10 |
| SHIELD-215-R3C-R10 | 21.5" 500cd/m² 1920x1080 Panel PC with Intel® Atom x7433RE Processor, TDP 9W, Preinstalled with 8GB DDR5, PCAP touch, 10~28V DC, 304 Stainless Steel Chassis, Full Body IP66 Rated With Water-Proof Connectors , R10  |

## Packing List

|                  |                 |
|------------------|-----------------|
| 1 x SHIELD-215   | 1 x Power Cable |
| 1 x USB2.0 Cable | 1 x LAN Cable   |
| 1 x QIG          |                 |