



# IOT-800N

## 8" Android Panel PC



### Features

- Rockchip PX30, ARM Quad-core Cortex-A35, 64-bit low-power processor, up to 1.5GHz
- Built-in Can BUS, OBD-II for fleet management applications
- 8M front camera for in-vehicle surveillance
- Multiple I/O including LAN, USB 2.0, and RS-232 support
- Global band LTE module; a single module for different countries and supporting positioning simultaneously
- Supports Android 8.1 and Build to Order (BTO) service for Ubuntu and Buildroot

### System

|        |   |
|--------|---|
| CPU    | ARM Quad-core Cortex-A35                            |
| OS     | Android 8.1, (BTO service for Ubuntu and Buildroot) |
| Memory | 2GB DDR4 memory soldered on board                   |
| Flash  | 16GB eMMC flash soldered on board                   |

### Peripherals and Devices

|              |  |
|--------------|--|
| Front Camera | 1 x 8MP resolution CMOS MIPI-CSI Type AF camera module |
| Audio        | 1 x built-in speaker (1W)<br>1 x built-in microphone   |

### Wireless

|           |  |
|-----------|--|
| WWAN      | Mini PCIE interface<br>WCDMA / LTE (optional)                          |
| WLAN      | IEEE 802.11 a/b/g/n/ac   |
| Bluetooth | Bluetooth 4.2, low power BLE   |
| NFC       | 1 x 13.56MHz RFID & NFC reader with ISO 14443A/14443B/15693 & mifare   |
| GPS       | Supporting GPS / Galileo / Glonass / BeiDou / QZSS ( <b>optional</b> ) |

### I/O Interface

|               |   |
|---------------|---|
| SD Card       | 1 x microSDHC/microSDXC/ microSD (Max. 128GB) card socket |
| USB           | 2 x USB 2.0 Type-A port<br>1 x micro USB 2.0              |
| Speaker       | 1 x 8Ω/1W   |
| DB9 Interface | 1 x RS-232/422/485 COM port;<br>1 x RS-232 COM port       |
| LAN           | 1 x RJ-45 Ethernet, 10/100Mbps                            |
| Power         | Tact switch   |
| CAN           | OBD-II  |
| DIO           | 3 x DI, 3x DO (dry contract)                              |

### LCD Display

|                                 |                       |
|---------------------------------|-----------------------|
| Size/Type                       | 8" TFT LCD            |
| Resolution                      | 1024 x 600            |
| Technology                      | High definition       |
| Brightness (cd/m <sup>2</sup> ) | 500 cd/m <sup>2</sup> |
| Contrast Ratio                  | 700:1(Typ.)           |
| Interface                       | LVDS Type             |
| View Angel (A/B/R/L)            | 70°/75°/75°/75° typ.  |

### Touch Screen

|           |  |
|-----------|--|
| Type      | 5-point Projected Capacitive multi-touch |
| Interface | I2C                                      |

### Power Input

|             |   |
|-------------|---|
| Power Input | Built-in ignition detection                   |
| DC Input    | 3-pin terminal block<br>9V~36V auto-detection |

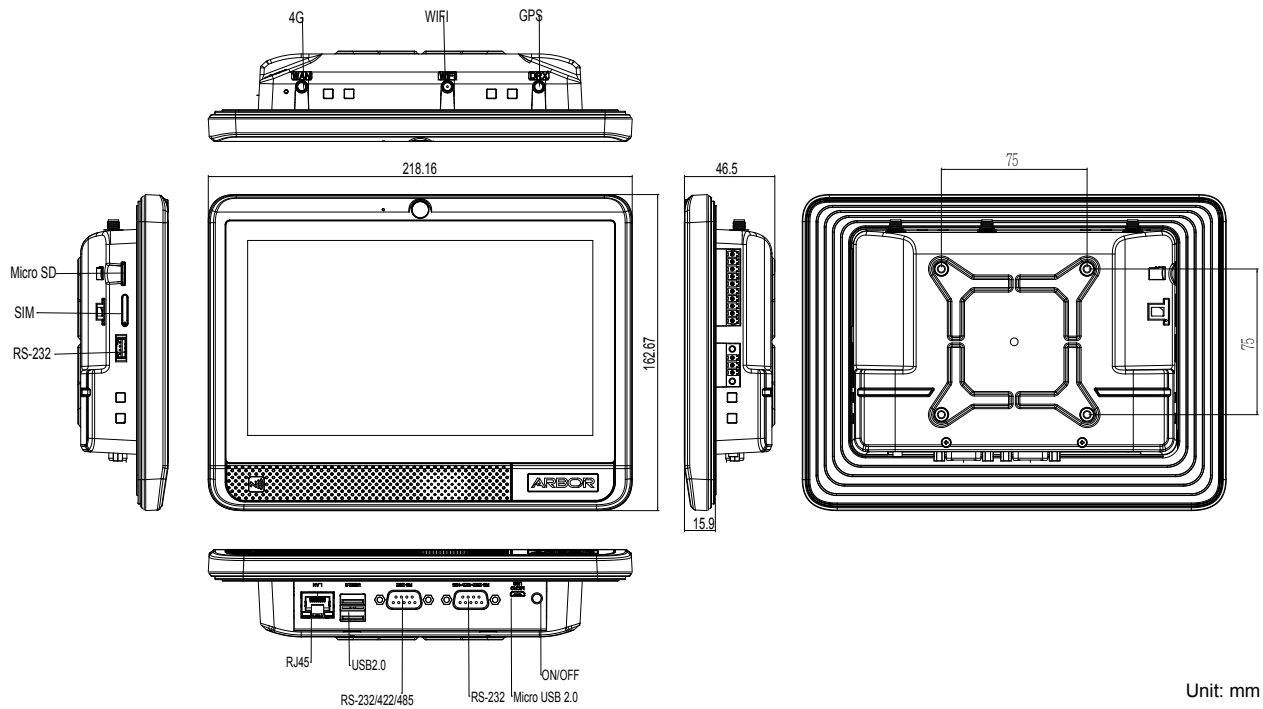
### Mechanical & Environmental

|                        |                                      |
|------------------------|--------------------------------------|
| Operating Temp.        | -20°C ~ 70°C (-4°F~158°F)            |
| Storage Temp.          | -20°C ~ 70°C (-4°F~158°F)            |
| Operating Humidity     | 5~90% RH@ 50°C (non-condensing)      |
| Dimensions (W x H x D) | 218.16 x 162.67 x 46.5mm (W x H x D) |
| Weight                 | 940g (2.07lb)                        |
| Regulatory             | CE, FCC                              |

### Installation

|            |             |
|------------|-------------|
| VESA Mount | 75mm x 75mm |
|------------|-------------|

## Dimensions



## Ordering Information

|              |   |
|--------------|---|
| IoT-800N     | 1 x 8" Android Panel PC, 8MP Front camera, WLAN, NFC, and Bluetooth ;<br>1 x Accessory Kit;<br>(1 x 3-pin DC Terminal Block, Plug with screws; 1 x 10-pin Terminal Block, Plug; 1 x WiFi Antenna)   |
| IoT-800N LTE | 1 x 8" Android Panel PC, 8MP Front camera, WLAN, NFC, Bluetooth, and Global LTE Module;<br>1 x Accessory Kit;<br>(1 x 3-pin DC Terminal Block, Plug with screws; 1 x 10-pin Terminal Block, Plug; 1 x WiFi Antenna; 1 x 4G Antenna)<br><br>Global LTE Module:<br>LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/B25/B26/B28<br>LTE-TDD: B38/B39/B40/B41<br>WCDMA: B1/B2/B4/B5/B6/B8/B19<br>GSM/EDGE: Quad-band<br>Embedded GNSS: GPS/GLONASS/BeiDou/Galileo/QZSS |

## Optional Accessories

|                          |   |
|--------------------------|---|
| GPS Antenna              | GPS Antenna, SMA Plug Male, 1600mm  |
| AC-DC Power Adapter (US) | Input : 100V-240V, Output : 12V/1.5A; W/3-pin Terminal Block with screws, US Plug |
| AC-DC Power Adapter (EU) | Input : 100V-240V, Output : 12V/1.5A; W/3-pin Terminal Block with screws, EU Plug |