

IOT-800

8" Risc-based Panel PC

User Manual



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Federal Communications Commission (FCC) Statement

15.21

You are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

15.105(b)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1) this device may not cause harmful interference and
- 2) this device must accept any interference received, including interference that may cause undesired operation of the device.

FCC RF Radiation Exposure Statement:

For body worn operation, this phone has been tested and meets FCC RF exposure guidelines when used with an accessory that contains no metal and that positions the handset a minimum of 1.5 cm from the body. Use of other accessories may not ensure compliance with FCC RF exposure guidelines.

Open Your Box

Package Contents:

- ▶ IOT-800 8" Risc-Based Panel PC
- ▶ 2-pin Power Terminal Block Connector
- ▶ Wi-Fi/Bluetooth Antenna
- ▶ 1M USB Cable
- ▶ User Manual



1	2.0 megapixel camera	11	Panel mounting holes
2	Microphone	12	10/100 Mbps RJ-45 LAN port
3	5-point projected capacitive touch screen	13	2 x USB 2.0 ports
4	Integrated 2W speaker	14	DB-9 RS-232 port
5	NFC antenna area*	15	DB-9 RS-232/422/485 port
6	4x 3.3V GPIO, 1 x CAN 2.0b / OBD-II	16	Power on/off toggle switch
7	2-pin DC terminal connector, 12V~24V auto-detection	17	4G antenna connector*
8	microSD card slot	18	Wi-Fi / Bluetooth antenna connector
9	Micro SIM (3FF) slot	19	3G/4G antenna connector*
10	UART Connector	20	VESA 75 mounting holes (M3 size)

*3G, 4G and NFC are optional modules and your IOT-800 may not come with these components.

Install microSD Card

To install a microSD card to the device, locate the microSD card slot on the side and insert the card following the direction as shown in the picture. Push the card into the slot until it locks into place.



Install SIM Cards & Antenna

SIM Card Installation

The IOT-800 accepts micro SIM (3FF) card. To install a SIM card to the device, locate the SIM card slot on the side and insert the card following the direction as shown in the picture. Push the card into the slot until it locks into place.



3G/4G Antenna Connection

According to the type of mobile network supported by your IOT-800, attach appropriate antenna to the IOT-800.

To use 4G mobile network, attach two 4G antennas as shown below.



4G Antennas

To use 3G mobile network, attach one 3G antenna as shown below.



3G Antenna

Wi-Fi/Bluetooth Antenna Connection

The IOT-800 comes with a Wi-Fi/Bluetooth antenna to help increasing the signal strength. To use the antenna, attach the Wi-Fi/Bluetooth antenna to the Wi-Fi/Bluetooth antenna connector.



Wi-Fi/Bluetooth Antenna

Power Connection

The IOT-800 comes with one 2-pin DC terminal block connector to connect power to DC power connector on the device. To use the block connector:

1. Use a wire-stripping tool to strip both of the wires from the DC-input power source. Expose the wire to the appropriate length for the DC power connector.
2. Insert the wires into the DC power connector terminals and use a screwdriver to tighten the two captive screws on the connector.

Pin	Description
1	Power_GND
2	+12V-



3. Connect the DC terminal block connector to the power connector on the IOT-800.
4. Enable DC power by plugging in the DC power supply cord to a power source, or by enabling power at the designated circuit.



After power connection, toggle the power switch to **ON** to turn on the device.

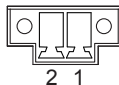


Connector Pinouts

PWPIN

Description: Power Input Connector

Connector Type: 2-pin Terminal Block

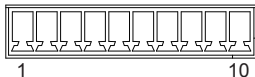


Pin	Description
1	Power_GND
2	+12V-

GPIO and CAN Bus

Description: Digital General Purpose Signal Input/Output and CAN

Connector Type: 4x 3.3V Digital GPIO connector and 1 x CAN 2.0b Bus



Pin	Description	Pin	Description
1	IO_GND	6	GPIO_4
2	GPIO_1	7	IO_GND
3	GPIO_2	8	CANL
4	IO_GND	9	CANH
5	GPIO_3	10	IO_GND

Note: The pin assignments of other connectors conform to the industry standard.

Warning:

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frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception,

which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

NOTE: This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter.

RF Exposure Statement

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance of 20cm the radiator your body.

This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter