

PLUTO SOLUTION PXM-100 PINIX Main Module User Manual

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Module

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PLUTO SOLUTION PXM-100 PINIX Main Module



Product Information

• PINIX Main Module (PXM-100)

• Manufacturer: PLUTOSOLUTION Inc.

Product Specification

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- The product image included in the specification sheet and the actual product may be slightly different.

Introduction of the product

PINIX Main Module" is a general purpose sensor gateway for collecting and transmitting data of various sensors and devices through various IF expansion module connections, and supports the connection of up to two additional expansion interface modules.

Composition of the product

Basic configuration



<PINIX Main Module>



Expansion interface module (sold separately)

Division Detail	
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Division	Detail
	Dedicated cable for interface expansion module connection – DIN 8 PIN (M12)

Appearance

Appearance



Interface Port





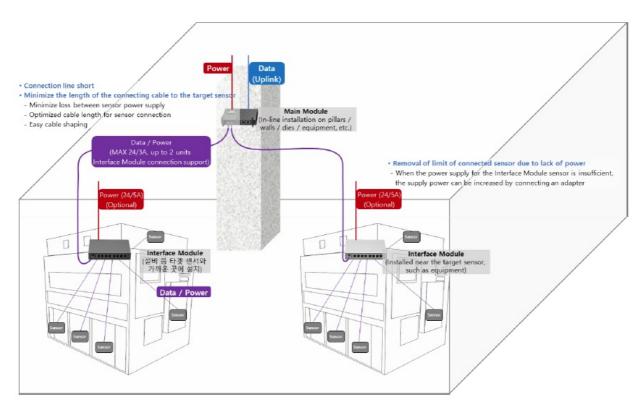
Num	Functions
	Display LCD
	Wi-Fi Antenna (2.4GHz / 5Ghz)
	Expansion Port (For expansion I/F connection) – Ethernet (DIN 8 PIN)
	Expansion Port (For expansion I/F connection) – Ethernet (DIN 8 PIN)
	ADB Debug Port – Micro USB 2.0
	UART Debug Port – Micro USB 2.0
	Eth1 External Ethernet (10/100, RJ-45)
	- For external connection (external connection to IO-Link Master)
	Eth0 External Ethernet (10/100/1000M, RJ-45)
	– For P-LTE Router/Uplink connection
	Power Switch (On/Off)
	3 Color LED (Blue: Power, Green : Network, Red: Status)
	Power Jack (24V / 5A)

Product Specifications

Division	Specifications
Product name	PINIX Main Module
Model name	PXM-100
Main Platform	Quad 1.8GHz A53DDR4 4GB Memory
	EMMC 32GB Storage
WiFi	• 802.11 a/b/g/n/ac (2.4, 5GHz)
Power	 24V / 5A Power supply through dedicated adapter 24V / 3A (Output Power) Sum of port output: 72W

	1GB Ethernet (1) – RJ45
	• 10/100MB Ethernet (1) – RJ45
	ADB Debug Port (1) – Micro USB 2.0
Port	UART Debug Port (1) – Micro USB 2.0
	Expansion Port (For expansion I/F connection) – Ethernet(2) –
	DIN 8 PIN(M12)
	1 Oirah LOD
	1.8inch LCD
Display	- Communication status display for each connected sensor port
Indicator	3 Color LED (Blue: Power, Red: Error, Green : Network)
Operating	
Temperature	0 °C ~ 50 °C
-	
Storage	
temperature	-20°C to 70 °C
Material	Anodized Aluminum Case
Weight	816±0.5g
Size(W*L*H)	215 * 124 * 35 / ±0.5 mm

Product installation diagram



How to use PINIX Main Module





Num.	Functions
	Display LCD
	Wi-Fi Antenna
	Expansion Port (For expansion I/F connection) – Ethernet (DIN 8 PIN)
	Expansion Port (For expansion I/F connection) – Ethernet (DIN 8 PIN)
	ADB Debug Port – Micro USB 2.0
	UART Debug Port – Micro USB 2.0
	Eth1 External Ethernet (10/100, RJ-45)
	Eth0 External Ethernet (10/100/1000M, RJ-45)
	Power Switch (On/Off)
	3 Color LED (Blue: Power, Green : Network, Red: Error)
	Power Jack (24V / 5A)

Power On

* Please connect the interface module in the power 'Off' state and use it. Turn on the power switch to 'On' to start the operation of the PINIX Main Module.

1. Power On

Blue LED of 'On' and 'Power' of LCD screen always 'On'

2. Network communication

Green LED of 'Network' part is always 'On' After installing the product, when connecting to the network, it may take several seconds depending on the environment and conditions of the installation site.

3. Expansion interface module connection

Connection with expansion interface module is possible through Expansion port. 24V Power Out is supported when an expansion module is connected.

How to check network communication status through PINIX Main Module Display LCD

1. Check network communication status

You can check the operation status of the main body through the LCD display screen. When network communication is ready, you can check the communication status of each expansion module on the LCD screen.

2. Check the network communication status of the extension interface module

You can check the operation status of the expansion interface module through the LCD display screen.

- 1. Ready Connect to the IF Module': No connection with expansion module.
- 2. Red LED 'On' when the expansion module is connected: Not connected to PINIX Main Module
- 3. Green LED 'On' when the expansion module is connected: port is not active

Data transmission cycle

The data transmission cycle of PINIX Main Module is transmitted according to the cycle set in the DS IoT server.

Precautions

- 1. Be sure to use connectors and cables of the standard for the connection terminals. Using a connector of the than the dedicated connector may cause product malfunction or malfunction.
- 2. Fix the product firmly without shaking in the place to be installed.
- 3. Do not install in a place exposed to water or rainwater or in a humid place.
- 4. Be careful not to let moisture or other foreign substances enter the product.
- 5. Be careful not to drop the product or subject it to external impact.
- 6. Do not disassemble, modify or change the product arbitrarily.
- 7. This product is designed for use in the temperature range of 0°C to 6 0°C. It is not recommended for use in extremely low or high temperatures outside this range.
- 8. Do not install in a place that does not meet the purpose of the product or use it outside of its intended use.
- 9. If there is a burning smell when operating the prod uct, immediately remove the power and contact the Pluto Solution Customer Support Center ((+82 031 337 6780).

FCC

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 u ndesired operation.

Any changes or modifications (including the antennas) to this device that are not expressly approved by the manufacturer may void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful in terference in which case the user will be required to correct the interference at his own expense This d evice is installed inside the facility. This device is used at a distance of more than 20cm from the human body.

* RF Exposure Statement

FCC RF Radiation Exposure Statement: This equipment complies with FCC RF Radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be colocated or operating in conjunction with any other antenna or transmitter. The material included in this product specification is the property of PLUTOSOLUTION Inc., and if it is reproduced or used without permission, you may be subject to legal punishment. The product image included in the specification sheet and the actual product may be slightly different. PINIX Main Module Product Specification PXM 100

Documents / Resources

PINIX Main Module Product Specification

PLUTO SOLUTION PXM-100 PINIX Main Module [pdf] User Manual

PXM-100, 2AZ8A-PXM-100, 2AZ8APXM100, PINIX Main Module, PXM-100 PINIX Main Module, Main Module, Module

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