



## System

- CPU : ARM Cortex-A53 CPU , 1.2 GHz
- RAM : 1G Bytes SDRAM
- ROM : 4G/8G/16G/32G Bytes EMMC Flash ROM
- OS : Linux raspbian 4.14 / GNU/Linux

## Ethernet \*1 (2<sup>nd</sup> port optional)

- Port Type : RJ-45 Connector
- Speed : 10 /100 M bps ( Auto Detecting )
- Protocol: ARP, IP, ICMP, UDP, TCP, HTTP, DHCP
- Protocol: PPPoE , DDNS , NTP , FTP , Telnet
- Mode : TCP Server / TCP Client / UDP
- Setup : HTTP Browser (Chrome,Firefox), Console
- Security : Set up Password
- Protection : Built-in 1.5KV Magnetic Isolation

## Serial Ports \*2

- Port : RS-232/422/485 \* 2 Port ( Surge Protect )
- Speed: 300 bps ~ 921.6 K bps
- Parity: None , Odd , Even , Mark , Space
- Data Bit: 5 , 6 , 7 , 8
- Stop Bit : 1 , 2
- RS-232 Pins : Rx , Tx , GND
- RS-422 : Rx+ , Rx- , Tx+ , Tx- ( Surge Protect )
- RS-485 : Data+ , Data- (Surge Protect, Over current protect ) )
- 15KV ESD for all signals

## Mechanical and Environment

- Operating Temperature : -10℃ ~ 70℃
- Storage Temperature: -20℃ ~ 80℃
- Dimensions : 200 \* 105 \* 30 mm ( W \* D \* H )
- Weight : 620 ± 5gm
- Housing: metal.

## Power

- DC 9~32V, 1000mA, 500mA@12V, support DC Jack & Terminal Input

## LED :

- SYS, EMMC MEMORY R/W, LAN LINK/TRANSMIT.

## Features

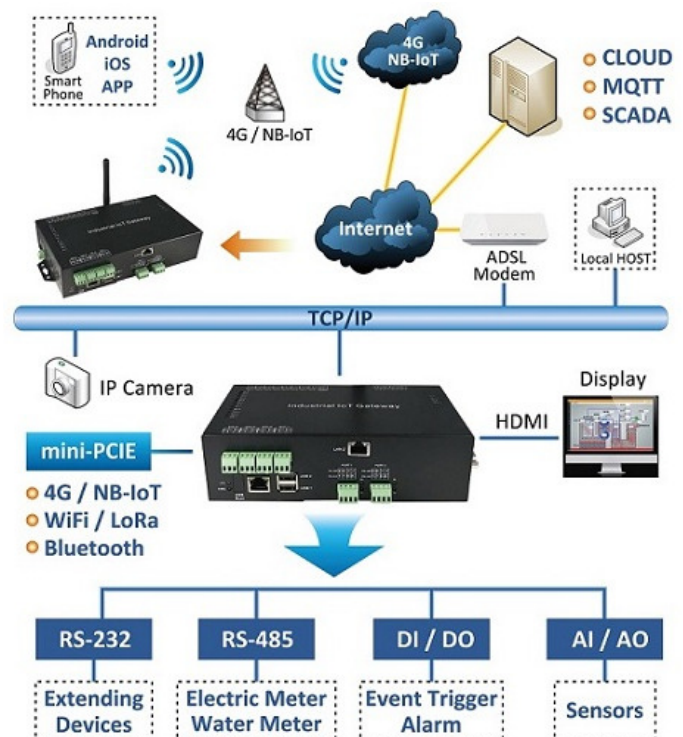
- Linux Raspbian 4.14 / GNU/Linux
- 4, 8, 16, 32GB EMMC Flash ROM optional.
- Multiple Serial Interfaces
- Powerful Computing capability
- Ethernet, Serial Port, GPIO, HDMI, I2C, SD Interface, USB, RTC, Buzzer, Mini-PCIE (option for 4G / WIFI / BLUETOOTH / LoRa module).

## Other Features

- Digital Input / Output : GPIO \* 16 Pins
- HDMI for Video / Audio
- SPI Interface \* 1 on board
- I2C Interface \* 1 port
- SD Interface : micro SD card ( for storage only )
- USB ( Host \* 2 port ) : for WiFi Dongle , Bluetooth Dongle, Memory Storage
- USB ( Slave \* 1, jumper select for Pi CM3 Initial Image Download )
- RTC : Real Time Clock \* 1
- Buzzer \* 1
- Mini-PCIE Connector (USB2.0 Interface) – option for 4G / WIFI / BLUETOOTH / LoRa module)

## Warranty

- Warranty period : 1 year.



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 \*\* Specifications subject to change without prior notice.