

Extend the DIO to 5Km~10Km
EX9212LoRa-DIO
(862~932MHz & +20dBm)

EXPERT
DAQ

EX9212LoRa-DIO



Specification :

CPU	32-bit MCU, 40MHz
RAM	16KB SRAM
ROM	128 K Bytes Flash ROM
Protocol	Support Modbus Protocol
LoRa	Semtech SX1272
Freq. :	ISM band 862~936MHz
Receiver Sensitivity :	-137 dBm
Transmit Output Power :	20 dBm
Sleep Current :	3uA (at power down state)
TX current	< 140 mA@20 dbm , RX current < 10 mA
Security processor	(128/192/256 bits AES)
Packet engine up to 256 bytes with CRC	
Antenna :	SMA Type , 2 dBi , changeable
Distance :	Up To 5000 Meters in free space
Data Rate :	0.244 ~ 18.2K bps (LoRa) / 300 K bps (FSK)
Application mode :	Star

Features

- LoRa gateways provide the way of connecting IoT remote units to a Local Area Network (LAN) or Host Computer from long distance. The data transmission via LoRa gateways mainly intended for the ISM (Industrial, Scientific, Medical) frequency bands at 862-932 MHz.
- The gateway has been built with the module integrated many RF functions and PA to make the maximum output power up to +20dBm.
- LoRa Interface Gateways are packaged in a plastic case well suited for industrial environments. LoRa Interface devices have different models for converting to Serial ports (RS-232, RS-422/485) and DI/DO, Ethernet, USB controller. Configuration is easy to set up via web page and utility tool.

Digital IO

Digital Input * 2 :
3000VDC Isolation Protect (Active High /Active Low Selectable)
Dry contact : Logic level 0 : close to GND , Logic level 1 : open
Wet contact : Logic level 0 : 0~3 V , Logic level 1 : 10 ~ 30 V

Digital Output * 2 :
Relay (Active High /Active Low Selectable)
120V AC@10A , 240V AC@7A , 24V DC@10A

Setup Tool : Windows Utility

Power : DC 9 ~ 24V / 150ma @ 9V , 60ma @ 24V

Led Lamp : SYS (red) , Pairing (green) , Rx(red) , Tx(green)

Environment : Operating Temperature:-10°C ~ 70°C
Storage Temperature:-20°C ~ 85°C

Dimensions : 160 * 90 * 25 mm (W * D * H)

Weight : 350 gm (not include power)

Order Information:

Optional : Din-Rail mounting kits

Power supply(Linear/ Switcing)

Accessories : CD(Utility/ Exbrowser ; IP Search)

Relative products: EX9212LoRa-E; EX9212LoRa-U;

EX9212LoRa-S;

EX9133C-2/PoE; EX9133C-RS232/PoE;

EX9133C-RS485/PoE; EX9133C-2-MTCP

EX9132CST/DIO