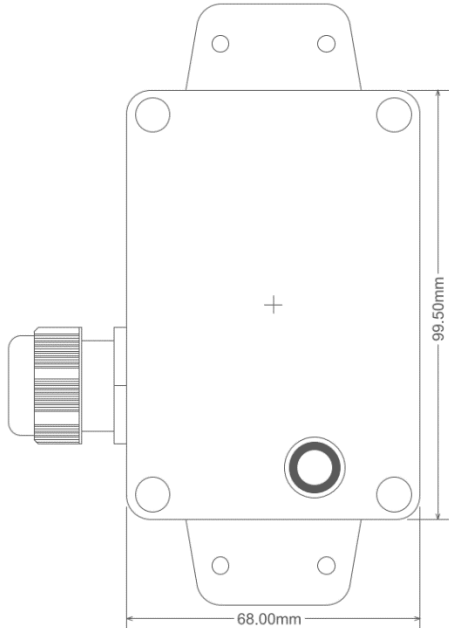


Industrial IoT Remote I/O (WAN-IO)

Model: RP-1204 With 12 Channel Isolated Input and 4 Channel Dry Contact Output

System Feature

- Wi-Fi/Ethernet Connected Industrial IoT Device
 - Once system power up, it will auto create a persistence connection to the server without user intervention.
 - Server can be placed either at public cloud, private cloud or LAN.
 - Device able to work behind firewall.
 - Network link with MQTT Broker Server
 - Open Standard protocol and readily available either using paid version or free version of MQTT Broker Server.
 - Messaging format based on JSON format.
 - JSON messaging format is supported by various programming language and easily integrated to any existing system.
 - Opto-Isolated Input Port
 - Total 12 Input Port Channel
 - Separated in to 3 Groups with each having their own input common.
 - Bi-directional opto-isolated allow use either common positive or common negative input.
 - Accept input DC 12V~24V
 - Relay dry contact Output
 - Total 4 Relay output channel
 - With one output common
 - Auto fetch real time clock from Internet Time Server.
 - Auto connect with the Internet Time Server to fetch the Real time value (EPOCH Time) when network is connected and internet link is available.
 - Manually set time by server if internet link is not available.
 - Auto readjust the time drift periodically.
 - Append the EPOCH time to all the message.
 - Easy setup and configuration
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- System configures with Android Apps.
- Provide detail device properties, E.g., model number, version number, etc.
- Connectivity selection either using Wi-Fi, Ethernet or USB Link.
- Upload WPA Enterprise Server private/public key.
- Server IP/Domain Name Setup.
- DHCP/Fix IP.
- Internet Time Server Setting.

- Other
 - Water/Dust resistance enclosure
 - Support wide supply input voltage, 12V DC to 24V DC.
 - All terminal block connector is detachable for easy installation
 - External water/dust resistance link indicator and configuration push button.
 - External configuration push button can be disabled.

Specification

Power and Enclosure Specification

<i>Input Voltage</i>	DC 12V to 24V Terminal Block Connector
<i>System Power Consumption</i>	5W Max
<i>Operation Humidity</i>	10%-95%RH
<i>Operation Temperature</i>	25°C to 55°C
<i>Storage Humidity</i>	10%-95%RH
<i>Storage Temperature</i>	0°C to 85°C
<i>Enclosure Dimension</i>	68mm (W) x 99.5mm (L) x 50mm (H) (Exclude Wire Glands Outlet)
<i>Enclosure Type</i>	Water/Dust resistance Durable Industrial PPM Casing

Input Channel

<i>Total Channel</i>	12
<i>Input Type</i>	Bi-directional Opto-Isolated, User can define either common positive or common negative
<i>Arrangement</i>	4 Channel per Group, total 3 groups. Each group will have individual common input
<i>Input Range</i>	12V to 24V DC

Output Channel

<i>Total Channel</i>	4
<i>Output Type</i>	Relay dry contact
<i>Arrangement</i>	One common output for all 4-output channel
<i>Current Rating</i>	Each channel 5A Max. Total channel 5A Max.

Wi-Fi Specification

<i>Frequency</i>	2.4Ghz~2.5Ghz
<i>Supported Wi-Fi Protocol</i>	802.11 b/g/n
<i>Antenna Type</i>	Internal
<i>Security Protocol</i>	WPA/WPA2 personal, WPA/WPA2 Enterprise
<i>Encryption Protocol</i>	WEP/TKIP/AES

Backend Server Connectivity

<i>Server Connection</i>	MQTT Broker with TCP, TCP-TLS, Web-Socket Connection
<i>Server Port</i>	User Definable
<i>Encryption/Security</i>	Public CA, Self-Signed Certificate
<i>Messaging Format</i>	JSON
<i>Other</i>	NTP auto RTC update

Device Outer Dimension

