RS2MQTT

IoT Gateway

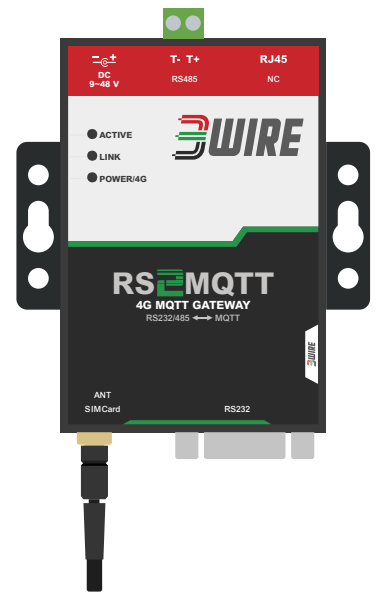www.3wire.my

INTRODUCTION ///

3Wire RS2MQTT is an Industrial Grade 4G IoT Gateway which connects your Serial and Ethernet* devices, such as PLCs, meters and sensors to an IoT platform.

RS2MQTT is able to poll the required data from your Serial devices and send it as MQTT or HTTP Post over GPRS or LTE network.
You can configure the connected devices thru the serial port, configuring and defining the required data and interval.

Upto 800 data records are stored in its internal cache memory to prevent data loss if the 2G / 4G connection is lost. The unit also comes with specially designed watchdog circuit to ensure stable continuous operation of 4G connectivity.

FEATURES & BENEFITS ///

- Supports 3 Modes; TDD-LTE, FDD-LTE & GSM
- Supports baud rate of 300bps ~ 921600bps, 5 ~ 8 data bits and parity can be "None", "Odd", "Even", "Mark" & "Space"
- Serial port interface for RS232 / 485; terminal block for RS485 and DB9 for RS232
- Supports Serial Port Transparent Transmission, Modbus RTU to Modbus TCP & MQTT Protocol
- Supports serial port AT Command configuration
- Power+4G / Link / Active LED indicator
- MQTT can be configured over the serial port
- DTL-645 & Modbus RTU parameters can be polled and converted to JSON fomat
- Upto 32 slaves connected on RS485 bus; with upto 200 parameters polled
- Heartbeat & Keep Alive function ensures a reliable connection
- Automatic discovery and configuration using provided 3Wire Device Management software
- Wide voltage 9VDC ~48VDC; DC-Jack
- Plug-in screw terminal wiring; accepts AWG12 ~AWG30 wires

SPECIFICATIONS

GENERAL SPECS

Interface	RS485/422: Terminal; RS232: DB9
Power Supply	5.5mm Plug & 2 Way Plugable Terminal Block Adaptor
Dimensions	94mm (L) x 65mm (W) x 25mm (H)

CELLULAR

Supported Modes	4G CAT 1 Supports 2G & 4G
	B1 / B3 / B5 / B8 @ FDD LTE
	B34 / B38 / B39 / B40 / B41 @ TDD LTE
	B3 / B8 @ GSM
Transmission Rate (Maximum)	LTE : 10Mbps (downlink) & 5Mbps (uplink)
	GPRS : 85.6Kbps (downlink) 85.6Kbps (uplink)
SIM Card	3V & 1.8V; Standard SIM
Antenna	50Ω / SMA Type

SERIAL PARAMETERS

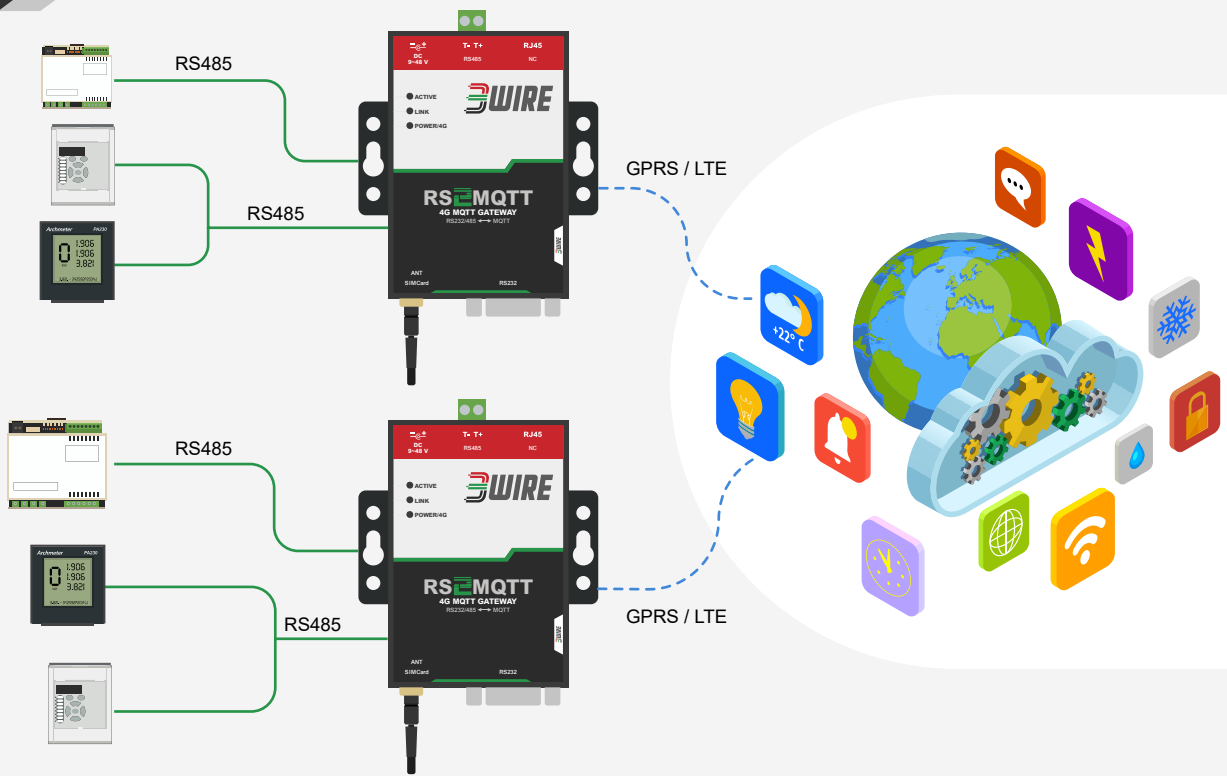|	
Baud Rate	300 ~ 921600bps
Data Bits	5 bits ~ 8 bits
Parity	None, Odd, Even, Mark, Space

COMMUNICATION

Protocol	MQTT & HTTP Post
Configuration	3Wire Device Management Software

POWER REQUIREMENT

9～24V DC, 80mA@12V；40mA@24V

ENVIRONMENT

Operation Temperature	-40°C ~ 85°C
Storage Temperature	-45°C ~ 125°C
Humidity	5 ~ 95% RH

RS2MQTT @ IOT GATEWAY

RS2MQTT

RS485

RS485

GPRS / LTE

GPRS / LTE

RS485

RS485

RS2MQTT ~ IOT GATEWAY WITH MQTT & HTTP POST/GET

RS2MQTT

FIELD DEVICE	RS232/TCP/IP /RS485/RS422	IoT GATEWAY	LTE/GSM/GPRS	BROKER	INTERNET	IoT CLOUD	INTERNET	USER CLIENT

SITE 1

RS2MQTT

4G /GPRS

SITE 2

RS2MQTT

MQTT

MQTT Broker

IoTWatt

Cloud X

SITE 3

RS2MQTT

FTP

Cloud Y

http://

HTTP POST

SITE 4

RS2MQTT

Cloud Z

3WIRE