



# NETWORK GATEWAYS

Reliable IoT gateways to **connect** different systems together.

## EASY INTEGRATION OF INDUSTRIAL DEVICES AND IOT EQUIPMENT.

- **Seamless IoT connectivity:** Multi-protocol IoT networking capability offers interoperability with unconnected systems / other devices with varying protocol.
- **Data Redundancy:** Options for memory storage for upto 4GB. This ensures there is no loss of critical data of the specific operations.

## REAL-TIME MONITORING AND CONTROL OF INDUSTRIAL PROCESSES.

- **Process/Operations Monitoring:** Digital/Analog input features enables to monitor all the process parameters through integration of pressure, flow, level, temperature, humidity sensors or other PLC devices with standard 0-20mA input.
- **Cloud Service Independency:** Ability to publish either to AWS or Azure Cloud platform for Remote Monitoring Systems.

## PROTECTION AGAINST UNAUTHORISED DATA ACCESS AND OTHER CYBERTHREATS.

- **Data Security:** Offers highly secured connectivity using the secured TLS data encryption.
- **Remote machine/process control:** With the digital output feature of GW 3000L/P, you can remotely turn ON/OFF specific machines or shutdown a larger plant process.



## Product Selector: GW 3000 Series



	GW 3000 L	GW 3000 M	GW 3000 P
<b>CONNECTIVITY</b>			
Ethernet	RJ45 10/100Mbit		
Web browser configuration	Available		
<b>MEMORY</b>			
Storage	-	1GB eMMC	8GB eMMC
RTC Battery	-	Built-in	
<b>PROTOCOLS</b>			
<b>Modbus</b>			
RS485 (2-wire)	Available		
Isolation	2kV galvanic		
Speed	800, 9600, 19200, 38400, 57600, 115200 bps		
No. of devices supported	Up to 64 devices (1 block each)		
Protocol	MODBUS RTU, MODBUS TCP/IP		
Function code compatibility	All function codes	Transparent - All Function codes. MQTT-0x03, 0x04	Function codes 0x03, 0x04, 0x05 0x10
<b>SNMP</b>			
Availability	-	-	Available
Protocol version	-	-	V 1.0
PDU type	-	-	Get
<b>PUBLISH TO CLOUD</b>			
MQTT - TLS	-	V1.2	
Data format	-	JSON	
AWS Cloud	-	-	Available
Azure Cloud	-	-	Available
Store MQTT messages when remote broker offline & forward when remote broker online.	-	Available	
VPN (Optional)	Available		
Operating System	Ubuntu 18.04, Customized		
Max. Devices	-	32 blocks for 1min, 64 blocks for 5min.	
<b>OPTIONAL FEATURES</b>			
PoE	-	-	Available
Digital Input	-	-	6
Digital Output	-	-	4
Analog Input	-	-	2

## MQTT Message Persistence & Recovery Data Storage

Parameters .	GW 3000 M				GW 3000 P			
	32	16	8	1	32	16	8	1
Devices	32	32	31	32	32	32	32	32
Freq	15 min	15 min	5 min	5 min	15 min	15 min	5 min	5 min
Storage	14 days	17 days	8 days	15 days	14 days	17 days	8 days	15 days
Recovery Data Storage						Last 5 days	Last 5 days	Last 5 days

## Technical Spec: GW 2000 Series



	GW 2000
<b>CONNECTIVITY</b>	
Protocol	MQTT
<b>ETHERNET PORT</b>	
Connector	8-Pin Rj45 Socket for CAT 5 UTP
Physical & Data Link Layer	IEEE 802.3i 10/100 BASE-T
Isolation	1.5 kV galvanic
Max. Cable Length	100 m (328 ft)
Protocols	MODBUS RTU, TCP/IP, IPV4, MQTT, DHCP, UDP, HTTP, ARP, ICMP
Concurrent Connections:	Windows: Max. 1023 clients
<b>SERIAL PORT RS485 / RS422 INTERFACE</b>	
Connector	5/08 mm 2-pin
Physical layer	EIA-485-A, 2 wire
Isolation	15kV
Speed	2400, 4800, 9600, 19600 bps
Max. Number of nodes	Up to 64 devices (1 block each)
Protocols	MODBUS RTU (Master)
Serial Number	TCP Server / Serial Tunnel
<b>USER INTERFACE</b>	
LED indications	Power (Red), Ethernet link (Green)
Monitoring & Configuration	Web browser based
High availability features	Support Watchdog, system never halt
<b>POWER SUPPLY</b>	
Connector	5.08mm 2-Pin
Voltage	4.5-6V DC
Current	2A typical @ 5VDC
Intrinsic Consumption	4W Eth/6W LGRS

## Mechanical Specification

