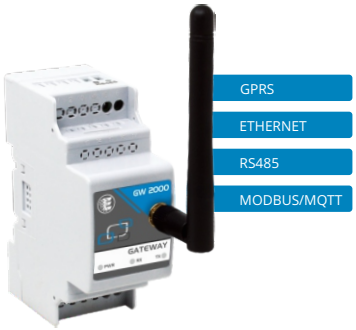


GW

GATEWAY

RS485 | ETHERNET | GPRS | RF

A MACHINE COMMUNICATION UNICORN TAILOR MADE FOR INDUSTRIAL IOT WORLD!

Features:

- Compact size
- Built in RTC
- Embedded web server for easy configuration and commissioning using a web browser
- Modbus/MQTT protocol
- DHCP / Static IP support
- Configurable RS485 baud rate, party and stop bits
- Completely isolated in both RS485 and RJ45
- Optional storage Available
- One touch recovery (Factory reset configuration)
- LED indication for easy setup and trouble Shooting

Benefits:

- Gateway helps link non-internet sensor and devices to the internet so that data, configuration and controlling can be made possible online
- Gateway can work as bridge between Zigbee and GPRS at low cost installation

Applications:

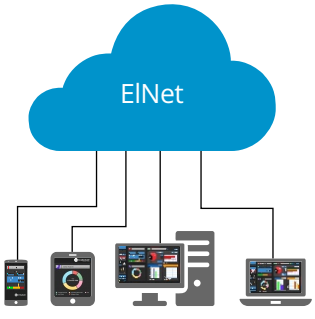
- Energy management system
- Building management system
- Data centers, etc.

COMMUNICATION MODEL

Master Device

PLC

SCADA



EMS

Modbus/MQTT **GATEWAY**

Ethernet/GPRS

Ethernet/GPRS

Slave Device

Smart Meters

iACCL

Branch Circuit Monitor

Energy & Process Controlling

✸ Upto 64 device

Technical Specification:

	GW 1000 (Ethernet/GPRS)	GW 2000 (Ethernet/GPRS)
PROTOCOL		
	Modbus RTU	MQTT
ETHERNET PORT		
Connecter	8-pin RJ-45 socket for Cat 5 UTP	8-pin RJ-45 socket for Cat 5 UTP
Physical & Data Link Layer	IEEE 802.3i 10/100 BASE-T	IEEE 802.3i 10/100 BASE-T
Isolation	1.5 kV galvanic	1.5 kV galvanic
Max. cable length	100 m (328 ft)	100 m (328 ft)
Protocols	Modbus TCP Server/client, RTU Server/Client, HTTP.	Modebus RTU. TCP/IP, IPV4,MQTT, DHCP, UDP, HTTP, ARP, ICMP.
Concurrent connections	2Modbus/TCP slave, 8 HTTP web page	Windows: Maximum 1023 client
GPRS INTERFACE		
Antenna	5 dBi (Omni-Directional)	5 dBi (Omni-Directional)
Quadband	(850/900/1800/1900 MHz)	(850/900/1800/1900 MHz)
Connectivity	Internal module and SIM card socket	Internal module and SIM card socket
Compliant to GSM phase 2/2+	Class 4 (2 W @850/900 Mhz); Class 1 (1 W @ 1800/1900 Mhz) Code Schemes C2 1, 2, 3, 4	Class 4 (2 W @850/900 Mhz); Class 1 (1 W @ 1800/1900 Mhz) Code Schemes C2 1, 2, 3, 4
SERIAL PORT RS-485/RS-422 INTERFACE		
Connector	5.08mm 2-pin	5.08mm 2-pin
Physical layer	EIA-485-A, 2-wire	EIA-485-A, 2-wire
Isolation	15KV	15KV
Speed	2400, 4800, 9600, 19200, 38400, 57600, 115200 bps	2400, 4800, 9600, 19200 bps
Max. number of nodes	64	64
Protocols	Modbus RTU (master), Modbus TC P/IP (master)	Modbus RTU (master)
Serial Number	Virtual Com / TCP Server / TCP Client / Serial Tunnel	TCP Server / Serial Tunnel
USER INTERFACE		
LED Indicators	Power (RED), Ethernet link (green)	Power (RED), Ethernet link (green)
Monitoring & Configuration	Web browser based	Web browser based
High availability features	Watchdog supervision, brown-out detection	Support Watchdog, system never halt
POWER SUPPLY		
Connector	5.08mm 2-pin	5.08mm 2-pin
Voltage	4.5-6 V DC	4.5-6 V DC
Current	2A typical @ 5 V DC	2A typical @ 5 V DC
Intrinsic consumption	4W Eth/6W LGRS	4W Eth/6W LGRS
ELECTROMAGNETIC COMPATIBILITY		
Emissions (radiated and conducted)	AS/NXS CISPR 22/En 55022 (Class A)	AS/NXS CISPR 22/En 55022 (Class A)
Immunity	EN 55024	EN 55024
Electrostatic discharge	EN 61000-4-2	EN 61000-4-2
Radiated RF	EN 61000-4-3	EN 61000-4-3
Fast Transients	EN 61000-4-4	EN 61000-4-4
Conducted RF	EN 61000-4-6	EN 61000-4-6
ENCLOSURE		
Material	self-extinguishing PC/ABS blend (UL 94-V0)	self-extinguishing PC/ABS blend (UL 94-V0)
Mounting	35mm DIN rail (EN 60715)	35mm DIN rail (EN 60715)
Classification/Type rating	IP 20/NEMA Type1	IP 20/NEMA Type1
Cooling	Connection	Connection
ENVIRONMENT		
Operating Temperature	0 to 60° C / 32 to 140° F	0 to 60° C / 32 to 140° F
Storage Temperature	-25 to 85° C / -13 to 185° F	-25 to 85° C / -13 to 185° F
Humidity rating	10 to 95% relative humidity, non condensing	10 to 95% relative humidity, non condensing
Operating Ambience	Free from corrosive gas, minimal dust	Free from corrosive gas, minimal dust
PHYSICAL		
Dimension	36mm x 90mm x 67mm	36mm x 90mm x 67mm
Weight	100gms	100gms