

GW2304W Series PoE+ LTE Industrial Router



Applications:

- CCTV
- IoT
- Outdoor cabinets
- Devices exposed to vibration

Router Features:

- High performance device with 4 ARM core CPUs
- 1 LTE category 4 cellular radio module
- PoE+ support
- Built-in GPS receiver
- Dual SIMs
- RJ45 ports configurable as RS232 or RS485
- Digital I/O
- Rugged aluminium enclosure with DIN mounting kit

Overview

The Virtual Access GW2304W Series router has been designed for remote access applications in the harshest of environments, such as unmanned roadside cabinets, railway trackside and pole-top smart grid applications over 4G. The PoE+ capability supplies up to 60W of power across the 4 Ethernet ports to power cameras with PTZ or other PoE devices. Serial ports and digital I/O options make this a very versatile device for many industrial applications.

GbE Ethernet Ports

The GW2304W Series router supports up to four 10/100/1000Mbps Ethernet interfaces. They can be configured as a single interface with Ethernet switching between them or as separate router interfaces.

PoE

The GW2304W Series supports up to four PoE ports with a total budget of 60W. The power management can allocate all the power to 2 ports for POE+ applications or spread the available power across all 4 ports depending on the power class of the connected device.

GPS Receiver

The GW2304W Series router includes a GPS receiver for positioning information, such as vehicle position in open cast mines or other application where knowing the position of the router is important. The GPS socket has a DC voltage to power an active GPS antenna.

SMS Management

The GW2304W Series router also supports SMS, so if the packet switched side of the network is down, commands can be sent to the router to perform diagnostics or even a reboot.

Ingress Protection

The GW2304W has been designed with rubber seals around each connector, providing an IP40 ingress protection rating.

Automatic Failover

The GW2304W can be configured to use any interface as a WAN connection. The management of the GW2304W is able to fall backwards and forwards between media interface depending on the availability.

Last Gasp

An SNMP trap is sent over LTE when the power supply voltage drops below the required nominal supply level.

DIN Rail Mounting

A DIN rail clip is included, which enables simple mounting for industrial applications.

Centralised Management and Monitoring

The GW2304W Series router benefits from Activator, Virtual Access' centralised configuration management and monitoring system. Activator simplifies and automates deployment, management and support tasks in managed network environments.

Software Features

Management

- Automatic configuration using Activator server
- HTTP/HTTPS browser access
- Command Line Interface via SSHv2
- TFTP client download/upload
- SNMPv1/v2c/3
- SMS management support enables SMS control including reboot

Fault Investigation and Reporting

- Event logging
- Syslog support
- Packet tracing

Routing Features

- IPv4 and IPv6
- DHCP server & client
- DynDNS
- NAT
- NAT Traversal
- NTP Client
- VLAN support
- Packet filtering
- Firewall
- Port forwarding
- BGPv4, OSPF and RIP (v1 and v2)
- IPsec/L2TPv2/L2TPv3/GRE
- DMVPN
- TLS 1.2
- 802.1x authentication
- IEC 104
- QoS
- VRRP
- VRF
- OpenVPN client/server

IPSec VPN Options

- IKE version 2
- X.509 certificates
- Elliptic Curve Cryptography (ECC)
- SHA2_512 support
- PFS
- SCEP
- DH_8192

Hardware Features

Ethernet Interfaces

- Four GbE Ethernet ports
- PoE+ on up to four Ethernet ports is available
- Ethernet ports can be configured for WAN use

Digital Inputs

- 2 x digital inputs for detecting remote contact open/close
- Software configurable as wet or dry inputs
- Scripts define action to be taken on input events

Digital Outputs

- 2 x relay contact outputs: 30V DC 1A normally open

Serial Ports

- 2 x RJ45 ports configurable as RS232 or RS485
- Terminal Server application or optional SCADA protocol support

SIMs

- 2 x micro SIM card sockets

Antennas

- 2 cellular antenna SMA sockets
- MIMO support in LTE versions
- 1 x GPS SMA female antenna connector with 3.3 Volt DC power feed for active antenna

LEDs

- Power indicator
- Signal strength indicators
- Ethernet activity
- Active SIM
- Configuration complete

Cellular Technologies

- LTE category 4
- LTE FDD Bands:
 - B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/B26/B28
- LTE TDD Bands:
 - B38/B39/B40/B41
- WCDMA Bands:
 - B1/B2/B4/B5/B6/B8/B19
- GSM Bands:
 - B2/B3/B5/B8

Approvals and CE Certificates

- CE RED
- EN 62368-1 safety approval
- EN 55032 and EN 55035 EMC
- Freefall drop test to EN60068-2-32:2008
- Bump test to EN60068-2-27:2009
- Random vibration test to EN60068-2-64:2008
- Mechanical shock test to EN60068-2-27:2009

Power

- 20-60V DC isolated input
- PoE support with input voltage over 44V
- PoE+ support with input voltage over 50V
- Last gasp - an SNMP trap is sent over LTE when power is lost

Physical and Environment

- Unit size: 170W 50H 125D (mm)
- Unit weight: approx 920g
- Ingress protection rating: IP40

Operating temperature:

- -20°C to +65°C
- Storage temperature: -30°C to +70°C

GW2304W Series

Article No.	Model	Power Input Voltage	Isolated Power Input	Ethernet Ports	Serial Ports	SCADA	POE
3490-03001	GW2304W-PE4-2S-2DI2O-QFR	20-60V DC	Yes	4	2	Yes	4