

The GW1042W Series Router

Rugged Compact 4G/LTE Router



Applications:

- Smart grid remote access
- Remote SCADA control
- Leased line replacement

Router Features:

- Category 4 LTE with global band coverage
- Connection Monitoring
- Dual SIM
- Rugged aluminium enclosure

Overview

The Virtual Access GW1042W Series router is a compact and rugged 4G/LTE router designed with a metal housing. It enables 4G/LTE or 3G HSPA+ connectivity in a wide range of applications including smart grid, SCADA, auto-recloser and remote asset monitoring.

The product is equally at home offering primary WAN, 4G/LTE failover to fixed line via one of the onboard Ethernet ports. Its small size is ideal applications where space is at a premium. The GW1042W Series router offers a new entry point for 4G/LTE data applications but still supports all the legacy access technologies: HSPA+, HSPA, UMTS, EDGE, GPRS and GSM.

WiFi Option

The GW1042W Series router has two external SMA female connectors for integrated WiFi support. It is capable of supporting both Access Point mode and Station mode concurrently if required.

Dual Ethernet Ports

The GW1042W Series router offers two 10/100Mbps Ethernet interfaces. They can be configured as a single interface with Ethernet switching between them or as separate router interfaces.

Cellular Radio Interface

The GW1042W Series router supports category 4 LTE, which has a maximum downstream speed of 150Mbps and a maximum upstream speed of 50Mbps.

A very large set of LTE bands is supported in a single device, providing global network coverage. This simplifies stock control and logistics for multinational operations.

Connection Monitoring & Dual SIM

The connection monitor ensures the GW1042W Series router delivers maximum availability so long as the cellular network is available. For critical applications, a dual SIM architecture ensures that a backup LTE network can take over should the primary network fail. The GW1042W Series router detects a network problem and fails over to a standby SIM/APN.

SMS Management

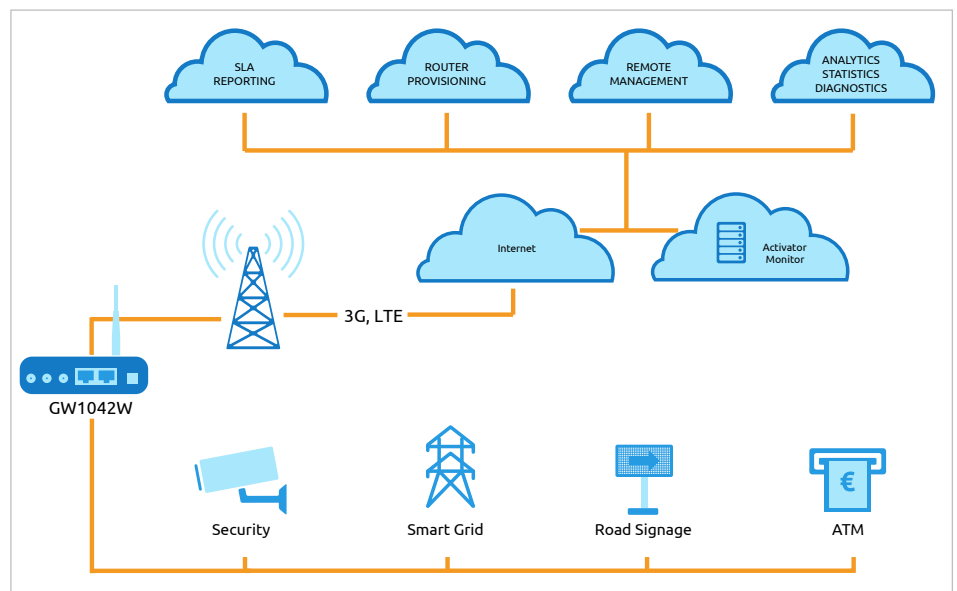
The GW1042W Series router also supports SMS, so if the packet switched side of the network is down, you can send commands to the router to perform diagnostics or even a reload.

Mounting Bracket

A bracket is included that enables simple mounting. The bracket can be clipped onto a DIN rail for industrial applications.

Centralised Management and Monitoring

The GW1042W 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. The Zero-Touch deployment functionality built into Activator means GW1042W Series routers can be deployed without the need of onsite configuration or even knowledge of IP or LTE networks.



Software Features

Management

- Automatic configuration using Activator server
- HTTP/HTTPS
- Command Line Interface via SSHv2
- TFTP client download/upload
- SNMP v1/v2c/3
- SMS management support

Fault Investigation and Reporting

- Event logging
- Syslog support
- Packet tracing

Routing Features

- Virtual Routing and Forwarding (VRF)
- IPv4 and IPv6
- DHCP server/client
- DynDNS
- NAT
- NAT Traversal
- NTP Client
- VLAN support
- Packet filtering
- Firewall
- Port forwarding
- BGPv4, OSPF
- RIP (v1 and v2)
- IPSec/L2TP/GRE
- DMVPN
- SNMP v1/v2/v3
- TLS 1.2
- 802.1x authentication
- IEC 104
- QoS
- VRRP

IPSec VPN Options

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

Hardware Features

LAN Interface Options

- Dual 10/100Mbps base-T Ethernet port
- Auto detects a regular or crossover cable for easy connection to a switch or hub

WAN Interfaces

- Wireless WAN with 3G and LTE options
- Ethernet ports can optionally be configured for WAN use

WiFi Option

- 2.4GHz 802.11bgn
- Concurrent Access Point and Station mode
- Dual SMA sockets

SIM

- 2 x SIM card socket with optional slot cover

Antennas

- 2 x LTE SMA female antenna connectors
- MIMO support in LTE versions
- WiFi option has 2 x female RP-SMA connectors

LEDs

- Power indicator
- Ethernet activity
- Active SIM

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 Certificates

- EN 60950 safety approval
- EN 55022 and EN 55024 EMC
- EN 300 328 V1.9.1

Power

- Input voltage 9-36V DC isolated
- Optional 9-36V DC non-isolated

Physical and Environment

- Unit size: 115W 111D 38H mm
- Unit size with mounting bracket: 120W 120D 45H mm
- Unit weight: 420g
- Mounting bracket included

Operating temperature

- -40°C to +70°C

GW1042W Front and Back Detail



GW1042W FRONT



GW1042W BACK

GW1042W Summary

Article No.	Model	Input Voltage	Isolated Power Input	Ethernet Ports	GNSS	WiFi
3490-00000	GW1042W-X-QFR-DCi0936	9-36V DC	Yes	2	No	No
3490-00006	GW1042M-X-QFR-DCn0936	9-36V DC	No	2	Yes	No
3490-00002	GW1042M-QFR-DCn0936	9-36V DC	No	2	Yes	Yes