

# The Virtual Access GW1150 Series Router

## Compact 4G/LTE Router for IoT Applications



### Applications:

- Analogue telephony over IP
- Fixed line backup over cellular data network
- Digital signage

### Features:

- Category 1 & category 4 LTE
- Optional 2.4GHz/5GHz WiFi selectable
- Optional built-in GPS receiver
- SIM card slot
- Compact ABS enclosure
- Optional serial port
- Optional FXS telephone port

### Overview

The Virtual Access GW1150 Series router is a compact 4G/LTE router designed for a wide range of IoT applications where footprint and cost point are key criteria.

The GW1150 Series router enables 4G/LTE connectivity for a wide range of applications including ATM, vending machine, remote CCTV and telemetry. The product is equally at home in site locations offering 4G/LTE primary WAN failover for fixed line connections. Its small size is ideal for IoT applications such as embedded connectivity for remote machines.

The product line offers a new entry point for 4G/LTE data applications and supports the following radio access technologies: LTE, HSPA+, HSPA, UMTS, EDGE, GPRS and GSM.

### Ethernet Interface

The GW1150 Series router offers either one or two Ethernet interfaces. Where two Ethernet interfaces are included they can be configured as a single interface with Ethernet switching between them or as separate routed interfaces.

### Optional Isolated Serial Interface

The RS232/RS485 port enables direct connections to serial devices and enables remote console access. Terminal server software is included.

### Optional FXS POTS Port

An optional single POTS port allows SIP signalling with RTP. Data loss must be avoided when used with analogue dial modems. The FXS port features a clock recovery circuit to avoid data loss due to clock slippage. Voice calls can also be supported.

### WiFi

The GW1150 Series router has a single external RP SMA female connector for integrated WiFi support. It is capable of supporting both Access Point mode and Station mode concurrently if required.

### GPS Receiver

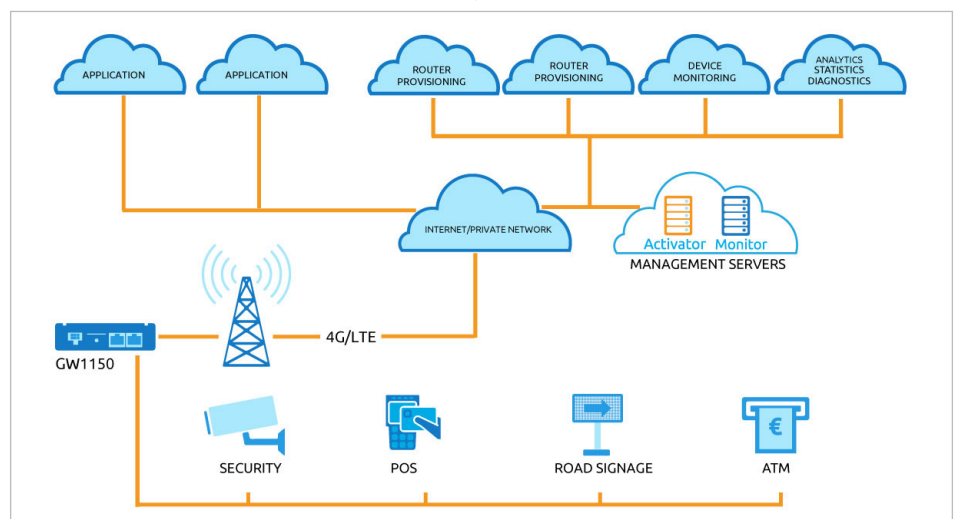
The GW1150 Series router includes an optional GPS receiver that can be used for device positioning. This facility may be beneficial in asset management applications. The device's GPS coordinates can be periodically reported to a central positioning application server.

### Extended Temperature Option

Certain deployment scenarios require wide variations in power input and temperature. The GW1150 Series router offers an extended temperature range of -20°C to +70°C. The standard temperature range is 0°C to +40°C.

### Centralised Management and Monitoring

The GW1150 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

- Command Line Interface via Telnet
- TFTP client download/upload

### Routing Features

- IPv4
- DHCP client
- SNMP v1/v2/v3

## Hardware Features

### LAN Interfaces

- 1 or 2 x 10/100 Mbps Ethernet ports
- \*The LAN ports can be configured as a single router interface or as separate router interfaces
- Auto detects a regular or crossover cable for easy connection to a switch or hub

### WAN Interfaces

- Wireless WAN with 3G, 4G/LTE options
- Ethernet ports can optionally be configured for WAN use

### Serial Interface

- Software configurable as RS232 or RS485 mode
- Galvanically isolated
- RJ45 presentation
- Terminal server software included

### Optional FXS Telephone Interface

- FXS POTS support
- Mapping from SIP/RTP to POTS
- Clock recovery prevents TDM slips for uninterrupted modem support

### WiFi

- WiFi standards: 802.11ac Wave 2, 802.11a/b/g, 802.11n
- WiFi spectral bands: 2.4 GHz, 5 GHz
- Concurrent Access Point and Station Mode

### SIM

- Mini-SIM card socket with slot cover

### Antennas

- Main and auxiliary LTE SMA antenna connectors
- MIMO support in LTE versions
- Option for GPS SMA antenna connector, standard in US models

### LEDs

- Power indicator
- Configuration status
- Ethernet activity
- Active SIM
- WiFi

### Approvals and Certificates

- EN60950 safety approval
- CE RED

### Power

- 12V DC 0.5A
- Power lead is supplied with 3 connectors for +12V, ignition +12V and 0V
- Optional AC adapter available (100-240V)

### Physical and Environment

- Unit size: 95W 85D 28H mm
- Unit weight: 125g
- Optional DIN rail mount kit

### Operating temperature

- Standard temperature 0°C to 40°C

### GW1150 Series Router



Dual Ethernet interface



Top view showing LEDs and SIM cover



FXS interface

### GW1150 Series Models with Cellular Options

Model Code	Input Voltage	Ethernet	WiFi	Serial	FXS	GPS	Mounting Bracket	RF Bands
GW1151	12V DC	1	•	•	•	•	✓	Refer to Radio Module datasheet
GW1152	12V DC	2	•	-	-	•	✓	
Option order code	-	-	-W	-S	-FXS	-G	-	

- = optional

#### Order codes:

Append the relevant suffix to the base model number.

RF band: select from the list on the Radio Module datasheet.

Examples: GW1150 Series with EMEA, Asia LTE, 2 Ethernet, GPS: GW1152-QFJ-G  
 FXS or Serial (not both) is available on GW1151 models only.