

The GW6600V-F Series

VDSL2, ADSL2+ 3G, LTE Router with Fibre WAN Option



Applications:

- Financial/ATM
- Utility telemetry applications
- Remote security monitoring
- Secure connectivity
- PCI compliant retail/Point of Sale

Router Features:

- VDSL
- Dual 4G radio
- Fibre Ethernet SFP socket
- Serial, Dial and ISDN options
- ET and DIN rail options

Overview

Based on the very latest VDSL, ADSL, 3G and LTE technology, Virtual Access GW6600V-F Series routers address the needs of Point of Sale (PoS), retail branch office, security monitoring and other key business applications demanding managed connectivity that is cost-effective, high performance and resilient to network outage or last mile circuit failure.

Designed for managed network providers, GW6600V-F Series routers provide secure WAN connectivity for internet and private networking environments over both DSL and 3G or LTE broadband paths.

Automatic Failover

The GW6600V-F provides optional automatic failover from fixed to wireless circuits ensuring business connectivity through network or last mile circuit outages, whilst email alerting and auto-failback confirm primary circuit restoration.

PCI DSS Compliance for Retail

Businesses that process, store or transmit credit card data, these days, must increasingly meet security requirements known as the Payment Card Industry Data Security Standard (PCI DSS). Designed to meet these standards, the GW6600V-F offers an extensive range of security, filtering and configuring functions enabling businesses to easily lock down computer and payment networks.

Four Port GigE Managed Switch

The four port GigE managed switch enables multiple devices to be connected with the ability to segment into separate LANs. Tagged 802.1q VLANs are also supported.

Fibre Ethernet SFP Socket

The GW6600V-F optionally supports a fibre SFP socket for Gigabit Ethernet. Various SFP types are available for short or long haul fibres.

Optional 802.11n WiFi

The GW6600V-F optionally incorporates WiFi connectivity. It can be configured to operate in either access point or client mode.

Dual Radio Support

The GW6600V-F has two radio sockets that can be populated with WiFi, 3G or LTE modules. Options include single WAN and single WiFi, dual WAN 3G or LTE modules or dual WiFi interfaces. Dual WiFi modules support concurrent 2.4GHz and 5GHz bands. Dual SIM sockets are supported.

ISDN BRI Interface

An optional ISDN BRI interface can be used in NT or TE mode. The interface can also be used to convert ISDN to SIP VoIP protocols.

Serial Ports

The RS232 serial and RS485 options facilitate direct connectivity to serial devices.

Dial Modem Interface

An optional internal PSTN dial modem provides out-of-band access, which can avoid costly truck-rolls.

SMS Messaging

Inbound and outbound SMS messages enhance the management capability of the device. For example, if all other WAN services are unavailable, commands can be sent to the router to perform diagnostics or even reset the unit.

Automated Router Provisioning

As with all Virtual Access routers, GW6600V-F Series routers offer simplicity when it comes to service provisioning. Using the centralised service management models from Virtual Access, the task of physical router configuration is minimised.

Router profiles are configured centrally enabling rapid services deployment to the end-customer sites. This process offers service providers considerable business benefits in large scale router deployments.

Centralised Router Monitoring

The Virtual Access Monitor is a secure portal that works in conjunction with each router installed at the edge of a customer's network. Monitor provides centralised access to device diagnostics and network availability status.

Software Features

Management

- Automatic configuration using Activator server
- HTTP/HTTPS
- Command Line Interface via Telnet or SSH
- TFTP client download/upload
- SNMP agent
- SMS management support

Fault Investigation and Reporting

- Event logging
- Syslog support

Routing Features

- 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
- QoS
- VRRP
- IPSec VPN
 - IKE version 2
 - X.509 certificates
 - Elliptic Curve Cryptography (ECC)
 - SHA2_512 support
 - AES_CBC (256), 3DES and DES
 - PFS
 - SCEP
 - DH_8192
 - 802.1x authentication
 - IEC 104

Hardware Features

GigE Interfaces

- Four 10/100/1000 Mbps Base-T Ethernet ports
- Ports can be divided into separate LANs using port-based VLAN feature
- 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
- Intel/Lantiq VRX318 chipset. Conforms to the following ITU standards:
 - ITU-T, G.992.1 G.dmt Asymmetric Digital Subscriber Line (ADSL) Transceivers
 - ITU-T, G.992.2 G.lite Splitterless Asymmetric Digital Subscriber Line (ADSL) Transceivers
 - ITU-T, G.992.3 Asymmetric Digital Subscriber Line (ADSL) Transceiver - 2 (ADSL2)
 - ITU-T, G.992.5 Asymmetric Digital Subscriber Line (ADSL) Transceiver - Extended Bandwidth ADSL2 (ADSL2+)
 - ITU-T, G.993.1 Very High Speed Digital Subscriber Line
 - ITU-T, G.993.2 Very High Speed Digital Subscriber Line

Fibre Ethernet Interface (Optional)

- SFP fibre socket for 1 Gigabit Ethernet interface

VLAN Support

- Tag-based 802.1Q VLAN or port-based VLAN on 4 ports

WiFi

- 802.11n b/g/n
- WPA/WPA2
- Dual-band (2.4 or 5GHz) two modules can be fitted for concurrent dual band support
- 64/128/152-bit WEP encryption, IEEE 802.1x authentication, AES and TKIP encryption

USB Interface

- USB hi-speed type A socket

SIM

- 2 x SIM card socket with optional slot cover

Dial Modem Interface (Optional)

- V.92 support up to 56Kbps
- Caller ID can answer calls from known diallers only

ISDN Basic Rate Interface (Optional)

- NT or TE mode. 2B+D
- ETSI signalling
- G.711 packet voice encoding. Echo cancellation with 16ms echo tail
- RFC3261 SIP signalling and RTP media flows
- Clock recovery eliminates data loss due to clock slippage

Serial Interface (Optional)

- RJ45 async serial ports
- RS232 to 115.2Kbps

Leased Line (Optional)

- Supports Leased Line interfaces
- 2 wire ETSI EN 300 448, 4 wire V1.2.1, ETSI EN 300 451, 4 wire input and output ports
- 2 & 4 wire ITU-T M.1040 and ITU-TM.1020/1025
- 1 RJ11 socket
- Impedance: 600 ohms
- Clock recovery eliminates data loss due to clock slippage

Digital Input (Optional)

- Digital input for detecting remote contact open/close
- Scripts define action to be taken on input events

Antenna Options

- 2 x SMA female antenna sockets are provided for each radio (WAN or WiFi)
- Many antenna options are available

Approvals and CE Certificates

- EN 60950 safety approval
- EN 55022 and EN 55024 EMC

Operating Power

- Power: 8 Watts
 - Input voltage: 9-15V DC
 - Optional external AC adapter (100-240V AC)*
 - Optional DC power cable*
- *Power option must be selected

Physical and Environment

- Unit size: 224W 158D 34H mm
- Unit weight: 950g
- Packaging size: 335W 215D 100H mm

Operating Temperature

- The operating temperature range depends on the router model.
- Standard temperature range:
 - 0°C to +50°C
- Optional industrial temperature range:
 - Order code -ET -20°C to +65°C
 - Order code -RFF -20°C to +60°C
- External AC PSU operating temperature ranges:
 - 0°C to +70°C PSU
 - -40°C to +70°C PSU

GW6600V-F Series Models

Model	VDSL2/ ADSL2+	GigE	Dual SIM	SFP Fibre	USB	Dial Modem	ISDN BRI	Leased Line	Serial	Digital Input	WiFi		RF Bands
											Single	Dual Concurrent	
GW6600V-F	1	4	1	●	1	●	●	●	●	●	●	●	Refer to Radio Module datasheet
GW6600V-F-X	-	4	1	●	1	●	●	●	●	●	-	-	
Order Code				-SFP	-USB	-DM	-BRI	-LL	-AS	-DI	-W	-W2	

● = purchase option

Notes:

X = no WiFi

WiFi cannot be fitted if 2 WAN radio modules are fitted.

Dual concurrent WiFi is possible when no WAN radio modules are fitted.

Only one of the dial modem, ISDN, digital input, leased line or serial interfaces can be fitted.

Order codes:

Append the relevant suffix to the base model number.

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

Example: GW6600V-F-QFR: VDSL2, QFR radio module.