

GW6600 Series ADSL Router

With Wireless Options for Resilient Business Connectivity



Cost-effective business grade routers for:

- Secure branch office connectivity
- PCI compliant retail/Point of Sale
- Financial/ATM
- Remote security monitoring
- Lottery and gaming
- Utility applications

Overview

Based on the very latest ADSL2+, WiFi and wireless technology, Virtual Access GW6600 Series routers address the needs of today's businesses for managed resilient broadband connectivity.

Point of Sale (PoS), retail branch office, security monitoring and other key business applications demand managed connectivity that is cost-effective, high performance and resilient to network outage or last mile circuit failure.

Designed for managed network providers, GW6600 Series routers provide secure WAN connectivity for internet and private networking environments over both ADSL2+ and 3G/LTE/CDMA450 broadband paths and incorporate optional 802.11n WiFi connectivity.

Automatic Failover

GW6600 Series routers provide 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 Markets

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). The GW6600 Series router is designed to meet PCI DSS requirements. It offers an extensive range of security, filtering and configuring functions enabling businesses to easily lock down computer and payment networks.

Four Port 10/100 Managed Switch

The four port 10/100 managed switch enables multiple devices to be connected in retail and branch office environments with the ability to segment into individually filtered subnets or DMZs. Tagged VLAN (802.1q) segmentation offers further versatility for diverse network applications.

Advanced Security

GW6600 Series routers deliver business grade security services including:

- IPSec (3DES and AES)
- L2TP
- Stateful Firewall

Optional 802.11n WiFi

The GW6600 Series optionally incorporates WiFi connectivity. The WiFi module utilises the latest 802.11n 'Multiple Input and Multiple Output' (MIMO) smart antenna technology. The WiFi security attributes can be remotely managed and can be configured for either WiFi server or WiFi client mode of operation.

Optional Dual SIM Wireless

The GW6600 Series router optionally incorporates the latest wireless technology. Dual SIM architecture ensures that a backup wireless network can take over should the primary network fail. The router detects a network problem and fails over to a standby SIM/APN if necessary, ensuring customers' SLAs are upheld. The GW6600 Series wireless functions also include support for inbound and outbound SMS. So for instance, if all other WAN services are unavailable, commands can be sent to the router to perform diagnostics or even reset function.

Secondary (PSTN) Interface

An internal PSTN dial modem optionally incorporated with GW6600 Series models offers 'out of the box' automated router configuration and out-of-band router access for managed ADSL service applications.

ISDN BRI Interface

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

Automated Router Provisioning

As with all Virtual Access routers, GW6600 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.

Another feature offered is SLA reporting functionality. The GW6600 Series router can be configured to monitor certain traffic types and stores local statistical information base on this traffic. Monitor can then periodically pull this information from the router and present a range of statistics including latency, packet loss and wireless signal strength.

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

- 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
- RIP (v1 and v2)
- IPsec/L2TP/GRE
- DMVPN
- SNMP v1/v2/v3
- TLS 1.2

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

ADSL Interface

- RJ11 socket

LAN Interfaces

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

WAN Interfaces

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

WiFi

- 802.11n a/b/g
- WPA/WPA2
- Dual-band (2.4/5GHz)
- 64/128/152-bit WEP encryption, IEEE 802.1x authentication, AES and TKIP encryption

VLAN Support

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

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
- RFC 3261 SIP signalling and RTP media flows
- RFC 4040 support for transparent 64kbps data calls

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

SIM

- 2 x SIM card socket with optional slot cover

Antenna Options

- 2 SMA connectors for WiFi
- 2 SMA connectors for 3G/LTE
- 3G/LTE rubber antenna
- External Blade, Through Hole, Magnetic Mount, FDO Penta High Gain, Wall Mount

Approvals and CE Certificates

- EN 60950 safety approval
- EN 55022 and EN 550 plug top PSU

Operating power

- Optional AC adapter
- DC input voltage: +12V up to 50V DC

Physical and Environment

- Unit size: 224W 158D 34H mm
- Unit weight: 916g
- Packaging size: 335W 215D 100H mm
- Optional conformal PCB coating for harsh environments

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

GW6600 Series Models and RF Band Options

GW6600 Series Models

Model	ADSL2+	Ethernet	3G/HSPA+	LTE	CDMA450	WiFi	Dual SIM Socket	Leased Line	V92 Modem	ISDN BRI
GW6610	1	4				●		●		
GW6611	1	4				●			✓	
GW6612	1	4				●				✓
GW6630	1	4	✓			●	✓	●		
GW6631	1	4	✓			●	✓		✓	
GW6632	1	4	✓			●	✓			✓
GW6640	1	4		✓		●	✓	●		
GW6641	1	4		✓		●	✓		✓	
GW6642	1	4		✓		●	✓			✓
GW6650	1	4			✓	●		●		

● = optional

RF Band Options

RF Band	Region	2G Bands	3G Bands	LTE Bands	LTE Category	Operating Temp	Order Code
A	Europe China	850/900/1800 1900	900/2100	-	-	-40°C to 70°C	-RFA
B	Europe Asia	850/900/1800 1900	850/900/1900/2100	-	-	-40°C to 70°C	-RFB
C	Europe Asia	850/900/1800 1900	850/900/1900/2100	B1/B2/B3/B5/B7/B8/B20	-	-30°C to 70°C	-RFC
D	Worldwide	-	-	B3/B7/B20/B31	-	-20°C to 60°C	-RFD
E	Europe	900/1800	900/2100	B1/B3/B7/B8/B20/B38/B40	3	-30°C to 70°C	-RFE
F	Worldwide	-	CDMA TX 452.500 ~ 457.475 RX 462.000 ~ 467.475	-	-	-20°C to 60°C	-RFF
G	Worldwide	850/900/1800 1900	850/900/2100	B1/B3/B5/B7/B20	-	-40°C to 70°C	-RFG
J	Worldwide	450	-	-	-	-40°C to 70°C	-RFJ
L	Europe APAC	900/1800	900/2100	-	-	-40°C to 70°C	-RFL
M	North America	-	850/1900	B2/B4/B5/B17	-	-30°C to 70°C	-RFM
N	Worldwide	-	850/900/1700/1800 1900/2100	B1/B2/B3/B4/B5/B7/B12/B13 B20/B25/B26/B29/B30/B41	-	-40°C to 70°C	-RFN
P	Australia New Zealand Latin America Taiwan	850/900/1800 1900	850/900/1900/2100	B1/B2/B3/B4/B5/B7/B8 B28/B40	4	-40°C to 70°C	-RFP
Q	Mexico/USA Canada	-	850/1900	B1/B2/B4/B5/B12/B13	4	-40°C to 70°C	-RFQ
Q1	Mexico/USA Canada	-	850/1900	B1/B2/B4/B5/B12/B13	1	-40°C to 70°C	-RFQ1
R	EMEA/Korea Thailand Indonesia	900/1800	850/900/2100	B1/B3/B5/B7/B8/B20/B38 B40/B41	4	-40°C to 70°C	-RFR
R1	EMEA/Korea Thailand	900/1800	850/900/2100	B1/B3/B5/B7/B8/B20	1	-40°C to 70°C	-RFR1
S	Europe	900/1800	850/900/2100	B1/B3/B5/B7/B8/B20/B38 B40/B41	4	-40°C to 70°C	-RFS
T	Asia/Pacific	900/1800	800/850/900/1700/2100	B1/B3/B5/B7/B8/B18/B19/B21 B28/B38/B39/B40/	6	-40°C to 70°C	-RFT
U	EMEA/North America/Latin America/APAC/ Japan/Australia	-	800/850/900/ 2100/1900/1800/1700	B1/B2/B3/B5/B7/B8/B18/B19/B21 B25/B26/B38/B39/B40/B41/B66	6	-40°C to 70°C	-RFU
X	Australia	-	850/2100	B1/B3/B5/B7/B28	4	-40°C to 70°C	-RFX
X1	Australia	-	850/2100	B1/B3/B5/B7/B28	1	-40°C to 70°C	-RFX1