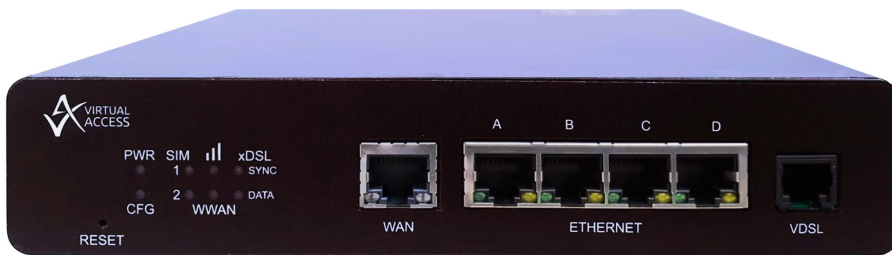


The GW6650V Series

VDSL2, ADSL2+ Cellular Router



Versatile 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 VDSL, ADSL and LTE technology, Virtual Access GW6650V 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, GW6650V Series routers provide secure WAN connectivity for internet and private networking environments over both DSL and LTE broadband paths.

Automatic Failover

The GW6650V 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.

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.

WAN Ethernet Port

A separate GigE Ethernet port is provided for WAN connection.

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.

Trusted Platform Module (TPM)

To achieve best-in class cybersecurity, the GW6650V Series is equipped with a TPM chip that keeps cryptographic keys secure and protects the device from cloning.

Secure Boot

Secure Boot ensures that the unit executes only software that is signed and trusted by Virtual Access.

Automated Router Provisioning

As with all Virtual Access routers, GW6650V 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.

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
- QoS
- VRRP
- Virtual Routing and Forwarding (VRF)

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

Ethernet Interfaces

- Four 10/100/1000 Mbps Base-T Ethernet LAN ports connected to internal switch
- Ports can be divided into separate LANs using port-based VLAN feature
- A separate WAN 10/100/1000Mbps port is provided. This is not connected to the internal switch
- Tag-based 802.1Q VLAN is supported on all ports

Cellular Interface

- 0, 1 or 2 radio modules

DSL Interface

- Maxlinear VRX518 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

SIM

- 2 x SIM card socket with protective cover

Antenna Options

- 2 x SMA female antenna sockets
- Many antenna options are available

Approvals and CE Certificates

- EN 62368 safety approval
- EN 55032 and EN 55035 EMC
- BT Openreach MCT

Operating Power

- Power: 7 Watts
- Input voltage: 9-16V DC
- Optional external AC adapter (100-240V AC)*
- Optional DC power cable*

*Power option must be selected

Physical and Environment

- Unit size: 186W 40D 134H mm
- Unit weight: 950g
- Packaging size: 335W 215D 100H mm

Operating Temperature

- Router operating temperature ranges:
 - Standard router: 0°C to +65°C
 - *Extended operating temperature router: -20°C to +70°C
- *Append '-ET' suffix to router part number to specify extended operating temperature option
- External AC PSU operating temperature ranges:
 - Standard PSU: 0°C to +70°C PSU
 - Extended operating temperature PSU -40°C to +70°C

GW6650V Series Models

Model Code	VDSL2/ADSL2+	GigE	LTE Radio	Ext Temp	RF Bands
GW6650V-QFR	1	5	1	-	Refer to Radio Module datasheet
GW6650V-QFR-ET	1	5	2	Yes	

Accessories

Article Number	Description
810-00043	24W AC adaptor operating temperature 0 to +70°C
810-00005	40W AC adaptor operating temperature -40°C to +70°C
810-00027	DC power cable 2m