



# GW2000 Series Service Managed Gateway

## 3G Wireless Router for Business-Critical Applications



- 3G failover for fixed line broadband connections
- Rapid service deployment applications
- ATM machine applications
- Construction industry applications
- Video surveillance applications

The Virtual Access GW2000 Service Managed Gateway (SMG) is a cost-effective, rugged, compact 3G wireless router suitable for a variety of business-critical applications.

### Primary Access

The GW2000 wireless interface supports 3G/HSDPA, 3G/UMTS and 2G/GPRS operating modes.

The GW2000 is a rugged compact wireless router offering Firewall, VPN and Quality of Service facilities commonly required by today's business applications. Designed for service providers, the GW2000 incorporates the unique Zero-Touch central provisioning and management facilities, found in other Virtual Access router products, which minimise service deployment and management costs.

### Fixed Line Broadband Backup Services

The GW2000 incorporates Virtual Router Redundancy Protocol (VRRP) functionality. This enables a wireless WAN backup for existing ADSL routers to be cost-effectively achieved, offering WAN and router redundancy to critical business applications.

### Dual SIM

The GW2000 has a dual SIM slot architecture facilitating alternative cellular network coverage.

### Antenna Options

The GW2000 offers a SMA female antenna connector

that accommodates a variety of antennae for increased coverage and reliability.

### Security and Data Privacy

The GW2000 incorporates business grade security and data privacy facilities including:

- Stateful Inspection Firewall
- NAT Traversal

IP Security (IPSec) Triple Data Encrypted (3DES encryption) for data privacy over Internet connections.

### Four Port 10/100 Mbps Managed Ethernet VLAN Switch

The four port 10/100 Mbps managed VLAN switch offers port-based VLAN segmentation. The four ports can also be configured as separate Ethernet interface with firewalling between them. Both auto-detection and manual selection of speed and duplex are provided.

### Quality of Service

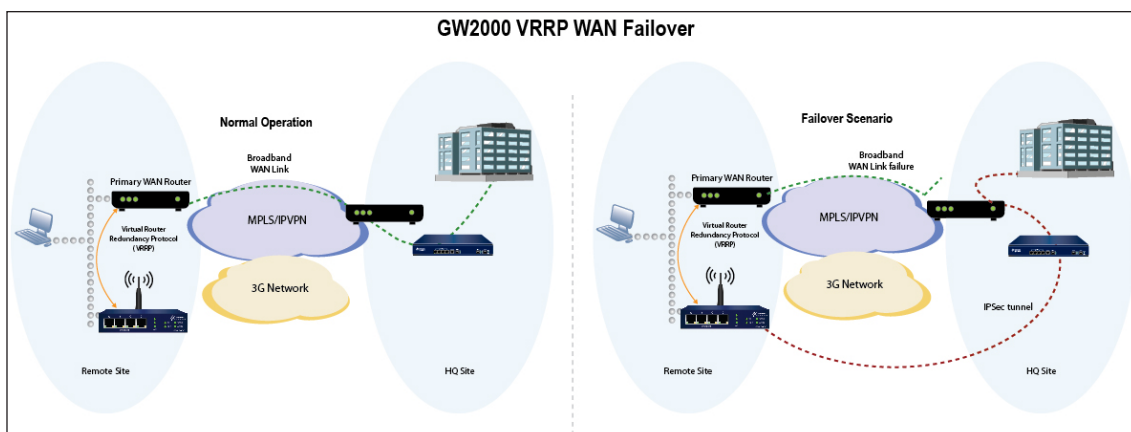
The GW2000 series appliance supports DiffServ classification, including marking, queuing, and policing functions commonly required in MPLS networks.

It supports a range of selection criteria for identifying and prioritising packets across local and remote interfaces.

### Centralised Management and Service Monitoring

The GW2000 benefits from Virtual Access's centralised configuration management and monitoring utilities enabling service providers to simplify and automate service deployment, management and support tasks in managed network environments.

Using a range of statistical methods, the appliance locally monitors a broad range of service attributes such as data throughput, WAN utilisation appliance availability and diagnostic status. Information captured by each router in the network is presented to the service provider's NOC via a central service monitoring portal.



## Software Features

### Management

- Fast.Start web wizard for ease of configuration
- Local and remote advanced configuration through embedded web server and Java applets
- Customisable embedded web interface
- TFTP client download/upload
- VA Activator smart file server support
- Configuration change log
- SNMP agent
- Telnet server
- RADIUS management user authentication

### Quality of Service

- QoS support of classification and marking
- Full DiffServ support

### Fault Investigation and Reporting

- Event logging
- Full web-based protocol-level trace and debug
- Syslog support
- Email event alerting
- Trace route
- Ping (single/continuous)

### Service Features

- Configurable host traffic monitoring applet
- DHCP server/client
- DHCP relay
- DNS proxy
- VRRP
- Cisco Discovery Protocol (CDP) auto-VLAN support
- Local and remote advanced configuration

- BOOTP client
- IP Address Translation
- Packet filtering and firewalling
- Performance Monitor

### Routing Features

- Support for IP, TCP, UDP, ICMP, ESP, AH
- Static and dynamic IP routing algorithms
- iBGP
- RIP and RIP2
- PPP
- Van Jacobson header compression
- PAP/CHAP security
- Loopback interfaces
- Network time protocol
- SNMP MIB II

### Web Content Filtering

- IFP client uses McAfee/Secure Computing Smart filter or Webwasher server

### VoIP Support

- SIP Proxy
- Call admission control
- MOS VoIP call quality measurement

### IPSec

- Hardware security engine for high performance encryption and authentication
- Manual and automatic key management
- HMAC-MD5-96 and HMAC-SHA-1-96
- 3DES (168bit) and DES (56bit) with explicit IV

### IKE-related VPN Specification

- Main mode, aggressive mode and quick mode
- Authentication using RSA signatures, DSS signatures and pre-shared keys interworking

## Hardware Features

### LAN Interfaces

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

### VLAN Support

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

### Antenna

- SMA female antenna connector

### Approvals and Certificates

- EN60950 safety approval
- EN55022 and EN55024 EMC

### Power

- 100V-240V AC, 5 Watts
- 5V DC plug top PSU

### Physical and Environment

- Unit size: 124W 120D 30H mm
- Unit weight: 500g
- Operating temperature 0°C to 40°C

GW2000 Series Models						
Model Number	HSDPA	UMTS	GPRS	Quad Ethernet	High Download Speed	Wireless Connectivity
GW2030	•	•	•	•	•	<ul style="list-style-type: none"> <li>• 7.2Mbps downstream/384Kbps upstream</li> <li>• Single band 2100 MHz UMTS/HSDPA radio (tri-band available for outside EU)</li> <li>• Quad band EGSM 850/900/1800/1900 MHz</li> <li>• EDGE Multi-slot class 12</li> <li>• GPRS multi-slot class 12</li> </ul>
GW2010			•	•		<ul style="list-style-type: none"> <li>• 48Kbps downstream/24Kbps upstream</li> <li>• Quad band EGSM 850/900/1800/1900 MHz</li> <li>• GPRS class 10</li> </ul>

Antenna Options		
Part Number		Description
4015-000-100		Stubby Right Angle (standard supplied antenna)
4015-000-200		Internal T Bar 2.5m Cable
4015-000-300		External Wall Mount
4015-000-400		External Blade
4015-000-500		External Through Hole 5m Cable
4015-000-600		Magnetic Mount External 5m Cable
4015-000-700		Low Profile Heavy Duty Screwmount