

The Virtual Access GW2000 Series Router

Dual SIM 3G Router for Broadband M2M Communications



- Broadband M2M communications
- SIM failover/standby APN
- 3G failover for fixed line broadband connections
- Rapid service deployment applications
- SMS support

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Broadband M2M Communications

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Fixed Line Broadband Backup Services

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Dual SIM

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Router Features

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Security and Data Privacy

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- Stateful Inspection Firewall
- NAT Traversal
- IP Security (IPSec) tunnelling for data encryption over Internet connections

Four Port 10/100 Mbps Managed Ethernet VLAN Switch

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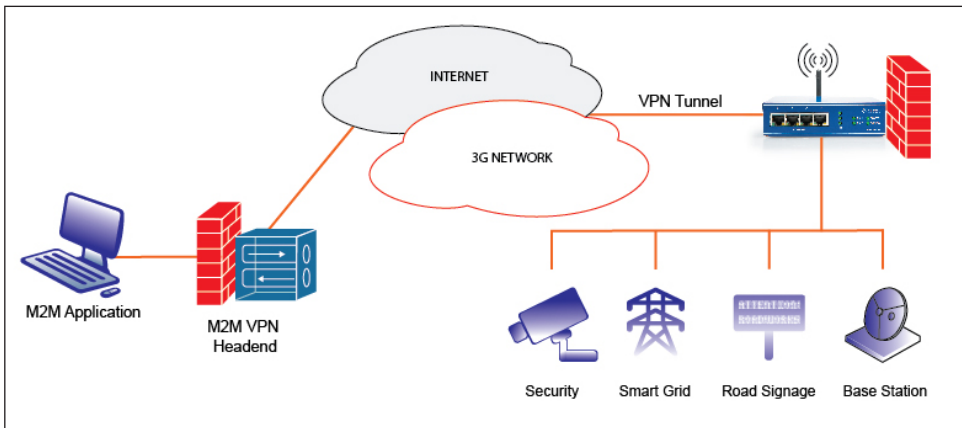
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Centralised Management and Service Monitoring

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Software Features

Management

- SMS support
- Local and remote advanced configuration through embedded web server and Java applets
- Customisable embedded web interface
- TFTP client download/upload
- Configuration change log
- SNMP agent
- Telnet server
- RADIUS management user authentication
- Performance Monitor

Fault Investigation and Reporting

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

Router Features

- DHCP server/client
- DHCP relay
- DNS Proxy
- Cisco Discovery Protocol (CDP) auto-VLAN support

- NAT
- Packet filtering and firewalling
- Port forwarding
- Support for IP, TCP, UDP, PPP, PoE, BGPv4, RIP, IPv2
- OSPF
- Virtual Router Redundancy Protocol (VRRP)
- GRE
- PAP/CHAP security
- Loopback interfaces
- Custom scripting language
- SNMP MIB II

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

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

Hardware Features

Wireless Connectivity

- HSDPA/HSDPA/UMTS
- Multi-band variants
- 900/2100MHz
- Power Class 3 (+24 dBm)
- HSDPA mode: 5.76Mbps: category 6

HSDPA modes:

- HSDPA 7.2: Categories 7 and 8
- HSDPA 3.6: Categories 5 and 6
- HSDPA 1.8: Categories 1-4, 11 and 12
- Equalisation and Rx diversity at the same time
- UMTS: 384Kbps operation in up- and down-link
- Support UL and DL compressed modes
- Power Class 1 (1W) for 1800/1900 bands
- EDGE class E2 (+27 dBm in 850/900 bands, +26 dBm in 1800/1900 bands)
- GPRS/EDGE multislot class 12 (4 slots Rx, 4 slots Tx)
- GPRS/EDGE Class B type 1 MT
- GPRS CS1-CS4; EDGE MCS1-MCS9

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 Options

- Supports optional dual antenna configuration for diversity
- 3G rubber antenna (supplied as standard)
- External Blade
- External Through Hole
- External Magnetic Mount
- FDO Penta-band High Gain Omni
- WMO Wall-mount Multi-band Omni
- SMA female antenna connector

Approvals and Certificates

- EN60950 safety approval
- EN55022 and EN55024 EMC

Power

- 100V-240V AC, 5 Watts
- 10V-15V DC PSU

Physical and Environment

- Unit size: 124W 120D 30H mm
- Unit weight: 500g
- Optional lockable SIM cover







Operating temperature

- -20°C to +70°C with DC power lead
- -20°C to +70°C with optional extended temperature AC power supply
- 0 to +40°C with standard AC power supply

GW2000 Series Models

Model Number	HSDPA	HSUPA	UMTS	GPRS	Quad Ethernet	High Download Speed	Operating Temperature Range	PSU Options
GW2040	'	'	'	'	'	'	0°C to 40°C	Standard AC PSU
GW2040-ET	'	'	'	'	'	'	-20°C to 70°C	Includes extended temperature PSU
GW2040-DC	'	'	'	'	'	'	-20°C to 70°C	No PSU, includes DC power cable

Antenna Options

Part Number		Description
4015-000-100		3G Rubber Antenna (Standard supplied antenna)
4015-000-400		External Blade
4015-000-500		External Through Hole 5m Cable
4015-000-600		Magnetic Mount External 5m Cable
4015-000-700		FDO Penta-band High Gain Omni
4015-000-800		WMO Wall-mount Multi-band Omni