

# The Virtual Access GW2020 Series Router

## Compact 3G, LTE, CDMA450 Wireless Router



### Applications:

- Commercial and industrial M2M
- Retail, lottery and gaming
- Utilities and digital signage
- Telemetry and metering
- ATM and security
- 3G or LTE failover for fixed line broadband

### Hardware features:

- Dual SIM
- CDMA450 Rev A and B; R-UIM support
- Single and dual Ethernet ports
- RS232 and RS485 serial ports

The Virtual Access GW2020 Series router is a versatile 3G, LTE, CDMA450 wireless router suitable for a variety of business and industrial deployments. The compact and rugged structure makes it a suitable product for deployments in M2M applications such as CCTV, ATM, telemetry, SCADA, retail (POS), digital signage, and intelligent traffic systems.

### Broadband Connectivity

The GW2020 Series router provides high speed, secure 3G, LTE, CDMA450 data network connectivity to remote sites and incorporates Virtual Router Redundancy Protocol (VRRP).

VRRP can facilitate 3G or LTE WAN backup services to existing fixed line routers, providing both WAN and router redundancy to critical business applications.

### Dual SIM

Dual SIM architecture ensures that a backup 3G, LTE, CDMA450 network can take over should the primary network fail. The router detects a network problem and fails over to a standby SIM/APN, ensuring customers' SLAs are upheld.

The GW2020 Series router also supports SMS, so if the packet switched side of the network is down you can still send commands to the router to perform diagnostics or even a reload.

### Optional CDMA450 Wireless

The GW2020 Series router optionally incorporates CDMA450 wireless connectivity. CDMA450 can offer high speed data technologies but at a potentially lower cost by using a lower carrier frequency. This makes the GW2020 ideal for primary WAN connectivity in remote or rural locations where wireline

services such as DSL and ISDN are not available, or are not cost-effective.

### Single or Dual Ethernet Ports

The GW2020 Series router offers either a single 10/100 Mbps Ethernet interface or a two port Ethernet switch. With the two port option, ports can be fully segmented using VLAN and 802.1q.

### Serial Ports

The RS232 serial and RS485 options facilitate direct connectivity to serial devices and enable remote console access.

### Advanced Security and Routing Features

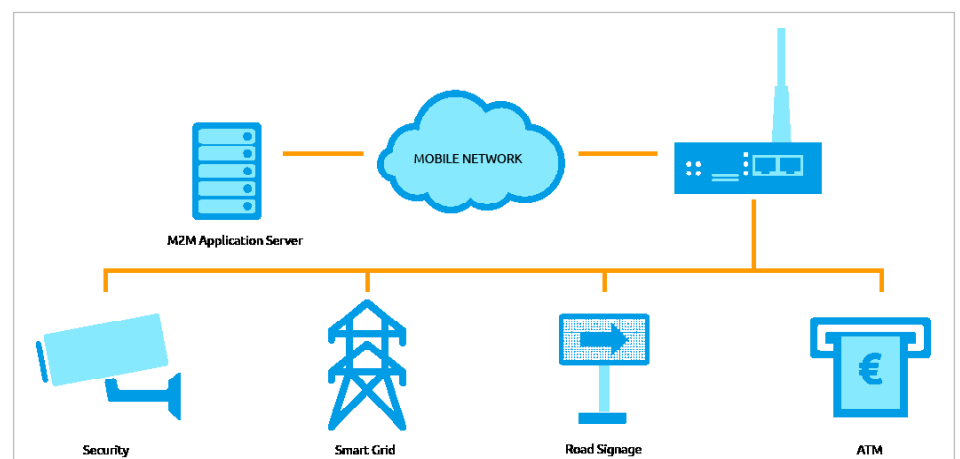
The GW2020 Series router offers business grade security and advanced routing features IPSec (3Des and AES), Stateful firewall and L2TP as standard.

### Wide Power Input and Extended Temperature

Certain deployment scenarios require wide variations in power input and temperature. The GW2020 Series router offers AC and DC (9V DC to 59V DC) power inputs as well as low power consumption and extended temperature options.

### Centralised Management and Service Monitoring

As with all Virtual Access routers, the GW2020 Series router benefits from centralised configuration management, monitoring utilities and SLA reporting. Centralised management and monitoring enables service providers to simplify and automate service deployment, management and support tasks in managed network environments. SLA reporting presents a range of statistics from the router including latency, packet loss and 3G or LTE signal strength over extended periods of time.



## 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
- 802.1x authentication
- IEC 104

### 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

### SCADA Support

- IEC60870-5-104 to IEC60870-5-101
- IEC60870-5-104 to DNP3 gateway
- DNP3 TCP/IP to serial conversion

### Terminal Server

- Serial RS232, RS485 to TCP/IP or UDP/IP conversion
- Connects serial ports to TCP or UDP streams

## Hardware Features

### LAN Interfaces

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

### WAN Interfaces

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

### SIM

- 2 SIM cards (optional cover available)

### Serial Interfaces

- 2 x RS232 option
- RS485 option

### LEDs

- Power indicator
- Signal strength indicator
- Ethernet activity
- Active SIM

### Antenna

- Advanced receiver diversity type 3i
- Supports dual antenna configuration for diversity

### Approvals and Certificates

- EN60950 safety approval
- EN55022 and EN55024 EMC

### Power Supply Options

- 100V-240V AC PSU (standard)
- 100V-240V AC PSU with extended temperature
- 9V-59V DC input. DC power cable with locking connector and bare ends

### Physical and Environment

- Unit size: 100W 138D 34Hmm
- Unit weight: 500g

### Operating temperature

- Operating temperatures vary, see model table below

### GW2020 Series Models

Model	Ethernet	Serial-0	Serial-1	Dual SIM	3G	LTE	CDMA450
GW2021*	1	-	-	✓	•	•	•
GW2022	2	-	-	✓	•	•	•
GW2023	2	RS232	RS232	✓	•	•	•
GW2024	2	RS232	RS485	✓	•	•	•
GW2025*	1	RS232	RS232	✓	•	•	•
GW2026*	1	RS232	RS485	✓	•	•	•

\*Non-stock items, subject to MOQ of 500

• = optional

### Power Supply Options

Model	Power Supply Unit Provided	Input Voltage	Operating Temperature
GW202X-DC	DC power cable	9-59V DC	-40°C to +70°C
GW202X-AC	Standard AC PSU	100-240V AC	0°C to +70°C
GW202X-ITAC	Extended temperature AC PSU	100-240V AC	-40°C to +70°C

## GW2020 Series RF Band Options

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