

Safety Documentation for a Virtual Access Router



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1 Electrical safety advisory

1.1 Safety instructions

The Virtual Access router is a class I/II apparatus.

When you receive the GW7000, GW8000 or GW9000 all unused slots on the back panel are covered with blanking plates. These plates must remain in place during system operation.

We recommend that an AC surge arrestor is installed in the AC outlet to which this equipment is connected.

Ensure that the unit is installed near an easily accessible, earthed mains socket outlet.

For the GW7000, GW8000 and GW9000 Series, plug in the power supply to a socket that is no more than 260cm away from the unit.

Allow at least 7.5 cm (3 inches) of space on all vented sides of the equipment to ensure adequate airflow for ventilation.

Locate the system in an area free of heat, dust, smoke and electrostatic discharge (ESD).

The router is complicated electronic equipment that may be repaired only by authorised and qualified personnel. There are no end user serviceable components in the router.

- Do not try to open or repair the router yourself.
- Do not place the router in a damp or humid place.
- Do not stack the router.
- The router should be used in a sheltered area, within a temperature range of 0°C to 40°C.
- Do not expose the router to direct sunlight.

1.2 Fuse rating

Nominal power consumption of the SMG is 15 watts. The recommended fuse rating for routers taking their power supply directly from the mains is 3.15 amps.

For the GW2000 and GW6000 Series use only the supplied plug-in AC/DC adapter.

1.3 Power supply

| GW Series | Electrical Supply Type | Voltage |
|---|---|-----------------------------|
| GW2040* | 6 pin locking socket, designated as a Safety Extra Low Voltage (SELV) port | 12V DC input. |
| GW202X | 6 pin locking socket, designated as a Safety Extra Low Voltage (SELV) port | 12V DC input. |
| GW5000 | IEC mains plug, accepts an input voltage of 110-240 VAC | 110-240 VAC |
| GW6000*/GW6500* | Barrel socket or 6 pin locking socket, designated as a Safety Extra Low Voltage (SELV) port | 5V or 12V DC input. |
| GW6600 | 6 pin locking socket, designated as Safety Extra Low Voltage (SELV) port | 12V DC |
| GW7000 | IEC mains plug, accepts an input voltage of 110-240 VAC | 110-240 VAC |
| GW7300 | IEC mains plug, accepts an input voltage of 110-240 VAC or screw in terminal block for 48V DC | 110-240 VAC or 48V DC |
| GW7600 | IEC mains plug, accepts an input voltage of 110-240 VAC | 110-240 VAC |
| GW8000 | IEC mains plug, accepts an input voltage of 110-240 VAC | 110-240 VAC |
| GW9000 | IEC mains plug, accepts an input voltage of 110-240 VAC | 110-240 VAC |
| *Use only the supplied plug-in AC/DC adapter. | | |

1.4 Ports

Ethernet 10/100 BaseT port

The Ethernet 10/100 Base T port is presented as a quad RJ-45. It is designated as a Safety Extra Low Voltage port.

Wide Area Network interface (ADSL, SHDSL, E1/T1)

WAN interfaces are presented as an RJ45 socket, is designated as a Telecom Network Voltage (TNV) port.

The GW6000 has an RJ11 for ADX.

Dial modem port

The dial modem port is presented as a 6-way RJ-11 socket, is designated as a Telecom Network Voltage (TNV) port.

GW7000-S Series router

The GW7000-S Series router is fitted with optional serial communication card. The serial port, presented as a 44-way High density D-type socket, is designated as a Safety Extra Low Voltage port.

1.5 Notices

High voltages

Under no circumstances should you operate the Service Managed Gateway with the cover removed.

Dangerous substances

Semiconductor devices contain dangerous substances, such as beryllium and arsenic. Electronic devices must not be opened. If they become damaged, they must only be handled using protective gloves. If the substances inside the electronic devices come into contact with broken skin or wounds, hospital care must be sought immediately. Electronic components must be disposed of as hazardous toxic waste and must not be incinerated.

This product incorporates LZS® compression from Hi/fn®

1.6 Wireless safety

Wireless routers incorporate a wireless radio module. Ensure the antenna is positioned at least one metre away from you and other people in normal operation.

If in a hospital or health care facility, do not use the router in areas where guidelines to switch off mobiles phones are posted. Medical equipment may be sensitive to RF energy.

The operation of cardiac pacemakers, other implanted medical equipment and hearing aids can be affected by interference from wireless routers when placed close to the device. People with pacemakers are advised to keep the wireless router away from the pacemaker while it is on.

Do not operate your wireless router in the presence of flammable gases, fumes or potentially explosive atmospheres. Wireless routers should not be used anywhere that blasting operations are taking place.

Wireless routers operate using radio signals and cellular networks cannot be guaranteed to connect in all possible conditions. Therefore, you should not rely solely on any wireless device for life-critical communications.

1.7 Product disposal



The United Kingdom and Republic of Ireland are under an obligation to minimise the disposal of Waste Electrical and Electronic Equipment (WEEE) in domestic waste and encourage recycling, recovery and environmentally sound disposal. Virtual Access is committed to promoting the reuse, recycling and recovery of WEEE by contributing to the appropriate compliance schemes.

Our product packaging is marked with the crossed out wheeled bin symbol to indicate that the product must not be disposed of in domestic waste but disposed of through an approved WEEE take back scheme. For details of your local collection facilities, please contact your local authority.

Virtual Access WEEE registration number: WEE/CA2530XZ.

2 European approval requirements

2.1 Compliance with 93/68/EEC CE marking directive

To meet the requirements of the CE Marking Directive 93/68/EEC, and to indicate compliance to National Type Examination, Safety, Production Quality Assurance and Electro Magnetic Compatibility requirements the following symbol is used:



Declarations of Conformity to Type are available from Virtual Access Ltd. on request.

2.2 Compliance with EC directive 2004/108/EC on electromagnetic compatibility

This product meets the requirements of EC Directive 2004/108/EC.

It should be noted by the user or installer of the product that to comply with the Electro-magnetic immunity requirements the host computer must also meet the requirements of this directive and provide a suitable earth connection to the Service Managed Gateway.

All Service Managed Gateway products meet the requirements of EN55024, and EN55022 Class B for domestic and light industrial environments.

2.3 Compliance with 2006/95/EC low voltage directive

This product meets the requirements of EC Directive 2006/95/EC.