

# 3G HSPA Router *Data and Voice*

3G WLL DG11 - Code 8D5715

- **3G HSPA** built-in module 7.2/5.76 Mbps
- 3G Router with **LAN interface**
- **Remote Activation** (SMS - CLI)
- **Voice support** (Fxs analog port)
- Send/Receive **SMS**
- Digital **IN-OUT management**
- **Backup Battery** (optional)

**Built-in 3G module**



## DESCRIPTION

Latest generation HSPA Router totally integrated, with Data and Voice functions.

**HSPA (High Speed Packet Access)** is an evolution of 3G UMTS protocol with a **download speed up to 7.2 Mbps (HSDPA)** and an **upload speed up to 5.76 Mbps (HSUPA)**.

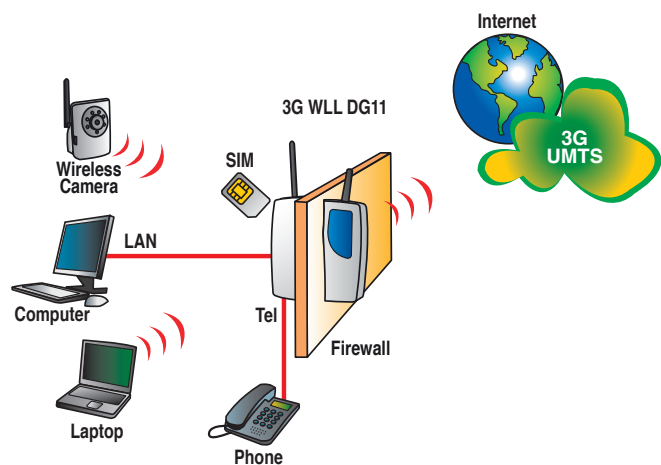
3G UMTS network is often the only possibility of wideband connection and it is with no doubt **the fastest and the most versatile solution** for new applications and services that overcome the **digital divide** that up till now has been possible with ADSL and xDSL connections only.

## Data Router

3G WLL connects and browses the Internet thanks to the **LAN port** and to the **11g wireless interface**. The **built-in Firewall** and the **encryption systems** of the wireless interface allow you to define the right **protection** for your network. For the **data security** you can also set a **VPN IPSEC tunnel**.

Through the **NAT, Virtual Server and DynDNS** you will be able to remote access to devices or services on the local network.

The implementation of **specific functionalities** makes 3G WLL the ideal device to meet the needs of the ever evolving **M2M market**. In particular the **Remote Activation** function **remote enables** the connection. When a specific SMS is received or a phone number



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is detected (CLI), the device will connect for a time set by the user and it will send an SMS informing that the connection has been performed and giving the IP address got from the network. You can also enable the 3G UMTS connection when an e-mail is received in LAN or through the management of the optoinsulated contact in the IN-OUT terminal block.

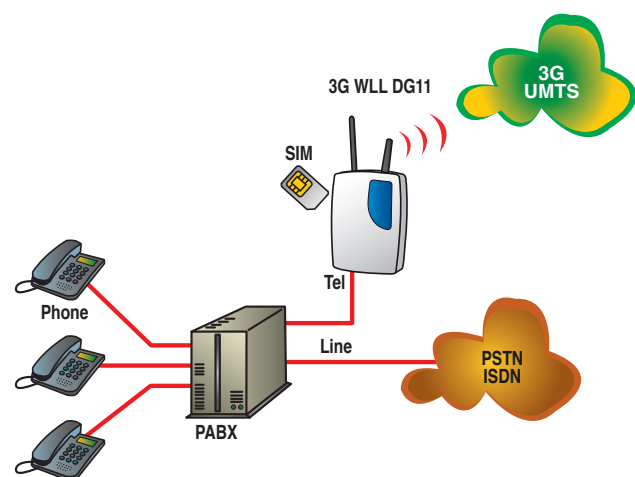
### Voice Gateway

3G WLL supports an **FxS telephone interface** to which you can connect a traditional phone or a PABX analog line performing a **voice gateway through 3G UMTS network**.

It can be successfully used also in **last mile applications** where no telephone line is available or where it is not convenient to take it.

A **Backup battery** (optional) can be installed to guarantee the voice and data operation even when power falls down.

3G WLL can be fully **setup and managed via WEB interface**, apart from the used operating system. The management and the configuration can be performed both locally and remotely.



## TECHNICAL FEATURES

### Wireless WAN

- 3G UMTS Gateway for data and voice applications
- HSDPA Category 8 (7.2Mbps Downlink)
- HSUPA Category 5 (5.76 Mbps Uplink)
- EDGE/GPSR Class 12
- Bands: UMTS 2100MHz
- Bands: EDGE/GPRS/GSM 850/900/1800/1900MHz
- Removable external antenna (2dBi) on SMA connector

### Hardware

- Web based local and remote configuration
- 1 LAN port 10/100Mbps, auto MDI/MDI-X
- 1 FxS voice port (RJ11)
- 1 SIM/USIM holder
- Size: 190 x 142 x 45 mm (exclusive of antennas)
- Terminal block: 1 relays output (NO-NC-COM), 1 optoinsulated input. Maximum range 2A at 150V
- Reset to Factory Default button
- 12VDC/1.2A external power supply (range 10-14.5V)
- Standby consumption 672mA - 770mA, Max.consumption 840mA
- Operating temperature 0-40 °C
- Non-condensig humidity: 20-95%
- Back-up battery Li-ion - 7,4V 1700mAh (optional) with 1,30h voice/data and 2,30h standby autonomy
- CE Mark

### Network Functionalities

- Full Routing IP (static and dynamic, NAT, Dynamic DNS (DDNS))
- Firewall (SPI) and protection from DoS attacks, Packet Filtering, URL content
- DMZ, Virtual Server, VPN Pass-through
- VPN IPsec (1 tunnel), DES, 3DES, AES, MD5, SHA1
- DHCP Server/Client support

### Wireless LAN

- Wireless up to 54Mbps (IEEE802.11g, b)
- 64/128 bit WEP, WPA-PSK/WPA2-PSK encryption
- 2 dBi removable external antenna on SMA-R connector

### Voice Functionalities - Phone Interface (FxS)

- Analog Phone Gateway function on FxS port
- Interface type: 2 wires analog - FxS (RJ11)
- Off-hook AC impedance: 600 ohm
- On-hook line power: 48VDC
- Off-hook line power: 25mA
- Tone or Pulse call
- Ring voltage: 38 Vrms
- Ring frequency: 25Hz

### Management

- Send/Receive SMS from WEB interface
- WEB based local/remote configuration and management
- WEB based Firmware upgrade