

## THOMSON TG789n Business Wireless VoIP Business VDSL2 Gateway



Data Voice Video

### | Innovation at its Best

As experienced VDSL2 player and with a leading role in VDSL2 interoperability, Thomson launches a new cream of the crop Business VDSL2 gateway, the THOMSON TG789n Business.

The THOMSON TG789n Business is a unique future-proof Voice over IP Gateway allowing VDSL2 connectivity while providing Voice over IP functions for business users.

The THOMSON TG789n Business offers next to 4 Ethernet ports, an additional 802.11b/g/n wireless LAN interface, and has a dedicated front end with auto detection between VDSL and ADSL2+.

A dedicated Gigabit Ethernet WAN port makes the THOMSON TG789n Business also the ideal service gateway for deployment in fiber-based access networks.

### | Features at a Glance

- Wireless networking on-board: 11b/g/n (2.4 GHz)
- Ultra Broadband connection: VDSL2 and GE uplink for fiber deployment
- 4 Ethernet ports
- 2 USB 2.0 masters
- Full FXO
- 2 FXS ports
- Remotely manageable (TR-069, TR-104, TR-098, TR-111)
- Innovative easy-customizable design
- Future proof hardware and software
- Wi-Fi Protected Setup



# THOMSON TG789n Business

## Wireless VoIP Business VDSL2 Gateway



### Future Proof Design

Thanks to the service memory platform, the THOMSON TG789n Business can go a long way, not only in its hardware, but also on the software side. The most advanced features can be integrated without any problem; even third-party applications, such as Home Monitoring, helpdesk..., are easily integrated.

The innovative housing design itself is top of the class and makes customization very easy: e.g. operators can add their own brands and colours.

### Unique Voice Features

On top of all standard voice features, the THOMSON TG789n Business boasts some unique voice features:

- Home Phone Assistance: an automatic service that informs users about their voice services.
- Voice to Email: email alert when voice message is left
- Answering Machine Service...

### Media Sharing

The THOMSON TG789n Business acts like a central hub for distribution of all content from any device to any device in the home. You can stream music, data, pictures and video from your gateway to devices connected to your wired or wireless home network.

### Easy is Key

The THOMSON TG789n Business is easy to use through simple 'plug and play' and easy to install with the Home Install Wizard, making the setup of a wireless home network as easy as clicking a button.

The Home Install Wizard performs comprehensive system checks before and during the installation and setup process, and validates all user inputs to guarantee the end user a secured wireless connection to the Internet.

The THOMSON TG789n Business is completely designed according to the TR-069 Data Model, through which the device can be configured remotely without any interference of the operator. In addition, TR-104 for VoIP is implemented for the configuration and management of all voice services.

### | The Ultimate in Ultra-Broadband

The accelerating growth of WAN and LAN traffic is pushing to look to higher-speed network technologies to solve the bandwidth crunch.

VDSL2 and Gigabit Ethernet are a means for extreme high bandwidth delivering an outstanding quality in voice, data and video.

The latest wireless N technology ensures robust in-house wireless distribution without any need for wires and makes it possible for people to be mobile without sacrificing quality or transfer speeds.

### | Voice over IP

The THOMSON TG789n Business offers two phone connectors to accommodate a phone and fax. Once the gateway is registered with a VoIP service, regular phone calls can be conducted over the Internet with all the benefits of IP Telephony.

The gateway offers a wide range of services like caller ID, CLIR, call waiting, call forwarding, 3-way conference and message waiting notification.

# Technical Specifications

## Hardware Specifications

### Interfaces

#### WAN

- RJ11 DSL line port
- GE uplink
- Full FXO

#### LAN

- 4-port autosensing 10/100Base-T auto-MDI/MDI-X Ethernet switch
- 2 FXS POTS interfaces
- 2 USB 2.0 hosts/masters
- Wi-Fi IEEE 802.11b/g/n on board

### Extras

Restore factory defaults button

WPS

### Dimensions (h x d x w)

19.5 x 6 x 23cm (9 x 2.4 x 9.1 in.)

### AC Voltage

100-240 VAC (switched mode power supply)

### Temperature

0° - 40° C (32 - 104 F)

### Humidity

20% to 80%

## DSL Modem Specifications

- Supports Multi Mode Standard
- ADSL compliance: ANSI T1.413 Issue 2, ITU-T G.992.1 Annex A, B (G.dmt), ITU-T G.992.2 Annex A, B (G.lite), ITU-T G.994.1 (G.hs)
  - Maximum Rate: 8 Mbps for downstream and 1 Mbps for upstream
- ADSL2 compliance: ITU-T G.992.3 Annex A, B (G.dmt.bis), ITU-T G.992.4 Annex A, B (G.lite.bis)
  - Maximum Rate: 12 Mbps for downstream and 1 Mbps for upstream
- ADSL2+ compliance: ITU-T G.992.5 Annex A, B
  - Maximum Rate: 24 Mbps for downstream and 1 Mbps upstream
- VDSL2 compliance, up to 17 MHz profiles (POTS/ISDN)

## Firewall Security

- Firewall with Stateful Packet Inspection
- Protection of Denial of Service (DoS) such as SYN Flood, Ping of Death, Fraggle, LAND, Teardrop, etc.
- Content filtering: URL blocking
- IP and generic packet filtering, based on IP address/port number/protocol type
- Real-time attack alert and logging

## Management

- User Friendly GUI via HTTP and HTTPS
- (Wireless) Home Network Install Wizard
- Web based Easy installation (OS independent)
- On demand Remote Management
- TR-69 Remote Manageable
- TR-104 Voice Provisioning
- TR-98 Queue Management
- TR-111 Home Network Device Management

## Services

- Content filtering
- ICSA certified security services
- Micro-modularity with FLEXIBundle
- Home network management
- Remote access
- Printer sharing

## Wireless Performance and Security

- Wi-Fi® CERTIFIED® 802.11b/g/n access point
  - data rates up to 300 Mb/s
- Wi-Fi Multimedia - WMM™ (802.11i)
- Supports 802.1x/ PSK WPA™
- WPA™-Personal / WPA2™-Personal (802.11i)
- Supports wireless repeater function to extend the coverage area
- Dynamic rate switching for optimal wireless data rates up to 300 Mb/s
- Manual/auto radio channel selection
- Wireless Distribution System (WDS)
- 64/128bit WEP encryption
- Wireless client MAC or hardware address-based access control (with physical registration button)

## Enabling Technologies

- QoS: ATM, Ethernet, Wi-Fi, IP
- FLEXIBundle
- Hyper-Nat
- «SIM-lock»
- Virtual bridges - portmapping
- Flexiport
- Smart DHCP, DNS
- UPnP

# Technical Specifications

## Voice over IP Features

### Voice Functionality

- Signalling: SIP, MGCP, H.323(0)
- Codecs: G.711, G.723, G.726, G.729, Wideband (G.722), T.38
- Echo cancellation G.168, VAD, Silence Suppression, Jitter Buffer, CNG
- Flexible Telephone number per FXS, including Common Numbers
- Interop with main market softswitches

### FXO

- Dial map for PSTN/VoIP outgoing calls
- Prefix for PSTN/VoIP switch
- Lifeline backup: manual and automatic PSTN / VoIP
- Incoming call detection on PSTN

### Supplementary and Advanced Services

- Call waiting (on call basis)
- Caller Identification
- Call forwarding (No answer/Busy/Unconditional)
- Call transferring
- Call waiting
- CLIP (Calling Line Identification Presentation)
- CLIR (Calling Line Identification Restriction)
- Fax transparency
- V.92 transparency
- 3-way conference
- MWI (Message Waiting Indicator)
- Missed call e-mail
- Click to dial
- Web-based phonebook
- Warm line
- Call Completion to Busy Subscriber
- Forced FXO
- Abbreviated number
- Internal calling
- Common number in/outgoing Call

## Content of the Box

- Wireless VoIP Business VDSL2 Gateway
- DSL cable (RJ11)
- Ethernet cable (RJ45)
- Power supply unit
- Setup CD and Leaflet
- Filter or splitter (optional)



TG789n Business Back Panel

## For more information

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