

THOMSON

THOMSON TG789n

Wireless n VoIP Ultra Broadband 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 VDSL2 gateway, the THOMSON TG789n.

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

The THOMSON TG789n 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 VDSL2 and ADSL2+.

A dedicated Gigabit Ethernet WAN port makes the THOMSON TG789n 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



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Future Proof Design

Thanks to the service memory platform, the THOMSON TG789n 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 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 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 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 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 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)

Management

- User Friendly GUI via HTTP and HTTPS
- GUI Easy installation wizard (OS independent)
- On demand Remote GUI assistance (helpdesk)
- Web-browsing Intercept (install / diagnostics)
- PC (Wireless) Home Network Install Wizard
- TR-69 CPE WAN Management Protocol
- TR-104 Voice Service Provisioning
- TR-98 Internet Gateway Device Management
- TR-111 Home Network Device Management
- TR-140 Storage Service Provisioning
- TR-64 LAN Side Configuration
- Zero-Touch Auto-Provisioning

Services

- Printer sharing
- Content sharing
 - Samba File Server
 - UPnP Media Server
 - DLNA DMS (certification ongoing)***
 - Metadata support
- Remote HDD file access
- USB DECT dongle support
- Parental control (Website Content Filtering) (optional)
- Open architecture for 3rd party application development

Wireless Performance and Security

- IEEE 802.11b/g/n access point
- Wi-Fi® CERTIFIED*
- WEP™, WPA™-Personal / WPA2™-Personal certified*
- Wi-Fi Multimedia - WMM™ certified*
- Wireless Protected Setup (WPS certified*)
- Up to 4 SSID support
- Security and service segregation per SSID
- Dynamic rates switching for optimal wireless rates up to 130 Mbps
- Manual/auto radio channel support

Firewall Security

- Stateful Packet Inspection Firewall
- Customizable Firewall Security Levels
- Intrusion Detection and Prevention (DoS, SYN Flood, Ping of Death, Fraggle, LAND, Teardrop, etc.)
- Website URL Filtering
- DMZ

Enabling Technologies

- Quality of Service: ATM, Ethernet, Wi-Fi, IP
- FLEXIBundle: Multi Role User Authorization
- Hyper-Nat: Symmetrical NAT with Application Helpers
- Game and Application Sharing NAT PortMaps
- «SIM-lock» Provider Locking
- DHCP Conditional Serving & Relay, DNS Server & Relay
- IGMPv3 proxy (FastLeave)
- IGMP snooping (Full routed)
- Flexiport (any Ethernet port bridged IPTV)
- IEEE802.1q VLAN bridging, Multiple Bridge Instances

Technical Specifications

Voice over IP Features

Voice Functionality

- Signalling: SIP, MGCP(O), H.323(O)
- Codecs: G.711, G.726, G.729, Wideband (G.722), T.38
- Flexible Telephone number per FXS and DECT Handsets, including Common Numbers
- Interoperable with main market softswitches

FXO

- Fully flexible dial plan 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 hold, call return
- CLIP (Calling Line Identification Presentation)
- CLIR (Calling Line Identification Restriction)
- CNIP (Calling Name Identification Presentation)
- CNIR (Calling Name Identification Restriction)
- Fax transparency
- 3-way conference
- MWI (Message Waiting Indicator)
- Missed call e-mail
- Click to dial
- Warm line
- Call Completion to Busy Subscriber
- Forced FXO
- Abbreviated number
- Common DECT number
- Common number in/outgoing call
- Anonymous Call Rejection
- Distinctive Ringing
- Voice Mail on No Reply
- Support for Secondary Outbound Proxy
- DNS NAPTR, DNS SRV

Content of the Box

- Wireless VoIP Residential VDSL Gateway
- DSL cable (RJ11)
- 2 Ethernet cables (RJ45)
- Power supply unit
- Setup CD
- Safety Reference Leaflet
- Filter or splitter (optional)

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TG789n back panel

For more information

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