THOMSON

THOMSON TG787
Wireless VoIP Residential Gateway

Data | Voice | Video

TELECOM | SATELITTE | CABLE | TERRESTRIAL

| Best in Class in Digital and Voice Communication

The THOMSON TG787 is a Voice over IP Gateway allowing ADSL connectivity while providing Voice over IP functions for residential and business users. The THOMSON TG787 offers next to 4 Ethernet ports, an additional 802.11b/g wireless LAN interface, and supports ADSL2+. It is also backwards compatible with ADSL offering autonegotiation capability.

| Home Networking with Easy Installation

Like all THOMSON gateways, the THOMSON TG787 is provided with the Home Install Wizard, making the setup of a wireless home network as easy as clicking a button. No more helpdesk calls, just click and you are ready to go. 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.

| Easily Manageable

The THOMSON TG787 is completely designed according to the TR-069 Data Model, through which the device can be configured remotely. In addition, TR-104 for VoIP is implemented for the configuration and management of all voice services.
TR-037 and TR-69 enable auto-configuration of network bandwidth according to service needs, allowing seamless integration with the network's provisioning system.

| Voice over IP

The THOMSON TG787 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 rage of services like caller ID, CLIR, call waiting, call forwarding, 3-way conference and message waiting notification.

THOMSON
images & beyond

THOMSON TG787
Wireless VoIP Residential Gateway

| Advanced in Security

The integrated firewall guarantees users ultimate network security. The firewall minimizes undesired service impact and provides stateful inspection of packets. An integrated Denial of Service (DoS) engine monitors a wide range of attack patterns, and logs potential security breaches to a local cache or remote server.

The THOMSON TG787 also supports powerful wireless security mechanisms, such as Wi-Fi Protected Access (WPA™), Wired Equivalent Privacy (WEP™) encryption, and a physical registration button. This allows users to communicate and access data with efficient link quality and the highest level of network security. Unwanted content filtering on the Internet is also integrated.

| Features in a Glance

- Wireless networking on-board: 11b/g
- ADSL2+ with integrated modem
- 1 FXO analogue port
- 2 FXS ports for phone and/or fax
- 4 Ethernet ports to connect multiple devices, such as PCs, laptops, set top boxes...
- 2 USB 2.0 masters for hard disk, printer, DECT dongle...
- Home entertainment ready
- Media sharing
- UPnP A/V
- Remotely manageable - TR-069, TR-104, TR-098, TR-111
- Built-in firewall
- Optional integrated filter

THOMSON
images & beyond

Technical Specifications

▌Hardware Specifications

Interfaces

WAN
- RJ11 DSL line port
- Optional ISDN (Annex B)
- Full FXO

LAN
- 4-port autosensing 10/100Base-T auto-MDI/MDI-X Ethernet switch
- 2 FXS POTS interfaces
- 2 USB 2.0 masters
- Wi-Fi IEEE 802.11b/g on board
- Mini PCI 11n TELCO (802.11b/g/n)

Possible HW extension
- Integrated filter

Extras

External dipole antenna

Restore factory defaults button

WLAN registration button (WPS)

Dimensions (h x d x w)

37 x 181 x 257 mm (1.5 x 7.1 x 10.2 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, L, M (G.dmt.bis), ITU-T G.992.4 Annex A, B, L, M (G.lite.bis)
  - Maximum Rate: 12 Mbps for downstream and 1.5 Mbps for upstream
- ADSL2+ compliance: ITU-T G.992.5 Annex A, B, M
  - Maximum Rate: 24 Mbps for downstream and 3 Mbps upstream

▌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
- Printer sharing
- Content sharing (UPnP A/V + SMB)
- Webcam control and display
- Secure Remote File Acess
- PC-less Peer-2-Peer
- Personal Web Gallery
- Shared HD with Access Rights
- Gateway Secured Storage
- Central PVR

▌Wireless Performance and Security
- Wi-Fi® CERTIFIED* 802.11b/g access point
  - data rates up to 54Mb/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 54 Mb/s
- Manual/auto radio channel selection
- Manual/auto selection of pure 802.11g/mixed mode (802.11b/g) network
- 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
- IGMPv3 proxy (Fastleave)
- IGMP snooping
- VLAN bridging - tagging

THOMSON
images & beyond

Technical Specifications

|Voice over IP Features

Voice Functionality

- Signalling: SIP, MGCP, H.323(O)
- Codecs: G.711, G.723, G.726, G.729, Wideband (G.722), T.38
- Flexible Telephone number per FXS and DECT Handsets, 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
- CLIP (Calling Line Identification Presentation)
- CLIR (Calling Line 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

|Content of the Box

- Wireless VoIP Residential Gateway
- ADSL cable (RJ11)
- Ethernet cable
- Power supply unit
- Setup CD and Leaflet
- Filter or splitter (optional)
- Foot and inlay (optional)

* Windows® is a registered trademark of Microsoft Corporation in the United States and other countries

* Wi-Fi CERTIFIED™ is a registered certification mark and WPA™, WPA2™, WPA™-Personal, WPA2™-Personal, and WMM™ are trademarks of the Wi-Fi Alliance

** UPnP™ is e certification mark of the UPnP™ Implementers Corporation

THOMSON
images & beyond