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THOMSON TG784
Wireless VoIP Gateway

Data Voice Video

❙ Best in Class Service Platform

The THOMSON TG784 is a triple-play Service Gateway providing VoIP and Home Networking Connectivity via LAN, WAN and Wi-Fi.

The THOMSON TG784 can be used in different deployment models, as it can handle multiple access technologies via the ADSL2+ interface or ETH WAN uplink port.

This service platform offers next to 4 Ethernet ports, also an additional 802.11b/g wireless LAN interface. This ADSL2+ Gateway is backwards compatible with ADSL offering autonegotiation capability.

❙ More Bandwidth to the Home

This unique product has an extra WAN Ethernet port with auto-WAN function to connect to any PON or WiMAX Network Terminator for Fiber or WiMAX solutions.

The auto-WAN function ensures automatic detection of the WAN switch and will immediately activate the existing WAN profile, such as firewall enabling, intruision detection...

❙ Features at 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...
- 1 Ethernet WAN 10/100 BaseT port
- 1 USB 2.0 master for hard disk, printer, DECT dongle...
- Home entertainment ready
- Media sharing
- UPnP A/V and DLNA
- Remotely manageable - TR-069, TR-104, TR-098, TR-111
- Built-in firewall
- Optional integrated filter

Wi-Fi CERTIFIED bg   dlna   UPnP AV   Wi-Fi PROTECTED SETUP

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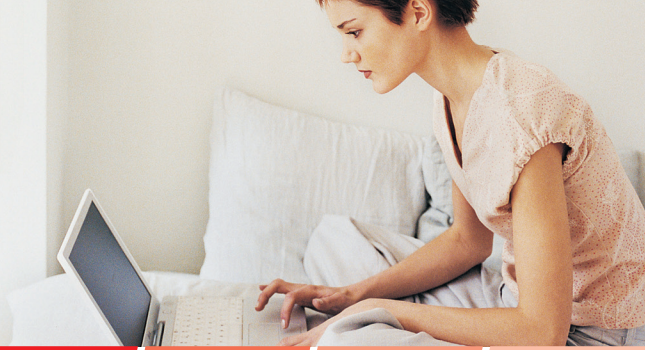
▎Home Networking with Easy Installation

Like all THOMSON gateways, the THOMSON TG784 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 TG784 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 TG784 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.

▎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 TG784 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.

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Technical Specifications

I Hardware Specifications

Interfaces

WAN
- RJ11 DSL line port
- Optional ISDN (Annex B)
- Full FXO
- Ethernet WAN 10/100 BaseT

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

Extras

Restore factory defaults button
WLAN registration button (WPS)

Dimensions (h x d x w)

41 x 167 x 223 mm (1.6 x 6.6 x 8.8 in.)

AC Voltage

100-240 VAC (switched mode power supply)

Temperature

0° - 40° C (32 - 104 F)

Humidity

20% to 80%

I 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
  - Maximum Rate: 24 Mbps for downstream and 3 Mbps upstream
- Supports Dying Gasp (optional)

I Management

- User Friendly GUI via HTTP and HTTPS
- GUI Easy installation wizard (OS independent)
- On demand Remote GUI assistence (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

I 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

I Wireless Performance and Security

- IEEE 802.11b/g 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
- Manual/auto radio channel support

I 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

I Enabling Technologies

- Quality of Service: ATM, Ethernet, Wi-Fi, IP
- FLEXIBundLE: Multi Role User Authorization
- Hyper-Nat: Symmetrical NAT with Application Helpers
- Game and Aplication 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

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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

• Interopable 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 Identifiation Presentation)

• CNIR (Calling Name Identifiation 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

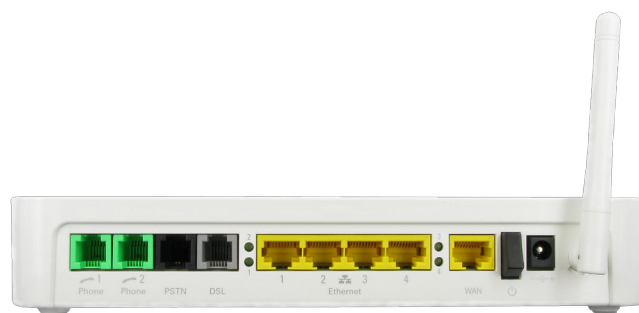• Support for Secondary Outbound Proxy

• DNS NAPTR, DNS SRV

| Content of the Box

• Wireless VoIP Residential Gateway

• Power supply unit

• ADSL cable (RJ11)

• Ethernet cable (RJ45)

• Setup CD and Leaflet

• Filter or splitter (optional)

• Foot and inlay (optional)

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TG784 back panel

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