

# TG787 VDSL2

Wireless n VoIP Gateway



On January 27<sup>th</sup> 2010, Thomson changed its company name to Technicolor. All product data sheets, including those for products which still carry the Thomson name, now reflect our new Technicolor brand.

## TELECOM

DATA

VOICE

VIDEO

## Best in Class in Digital and Voice Communication

The Technicolor TG787 VDSL2 is a Voice over IP Gateway allowing VDSL2 connectivity while providing Voice over IP functions for residential and business users. The Technicolor TG787 VDSL2 offers next to 4 Ethernet ports, an additional 802.11b/g wireless LAN interface, and has a dedicated front end with auto detection between VDSL and ADSL2+.

The Technicolor TG787 VDSL2 permits transmissions of up to 120 Mbps downstream, and 60 Mbps upstream.

## Home Networking with Easy Installation

Like all Technicolor gateways, the Technicolor TG787 VDSL2 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.

## Features at a Glance

- Wireless networking on-board: 11b/g
- VDSL 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 USB 2.0 master for hard disk, printer, DECT dongle...
- Auto-detect / dual front end
- Home entertainment ready
- Media sharing - UPnP A/V
- Remotely manageable - TR-069, TR-104, TR-098, TR-111
- Built-in firewall



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## Easily Manageable

The Technicolor TG787 VDSL2 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-69, TR-111 and TR-98 enable auto-configuration of the home network according to service needs, allowing seamless integration with the network's provisioning system.

## Voice over IP

The Technicolor TG787 VDSL2 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.

## 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 Technicolor TG787 VDSL2 also supports powerful wireless security mechanisms, such as Wi-Fi Protected Access (WPA™), Wired Equivalent Privacy (WEP™) encryption, and a physical registration button. Unwanted content filtering on the Internet is also integrated.

## Wi-Fi Protected Setup (WPS)

The Technicolor TG787 VDSL2 supports both the WPS PIN and PBC method; both allow users to access the secure home network and communicate data with efficient link quality and the highest level of network security, either by entering a PIN-code or by physical user registration button.

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## Technical Specifications

### Hardware Specifications

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- Interfaces WAN RJ11 DSL line port  
Full FXO
- Interfaces LAN 4-port autosensing 10/100Base-T auto-MDI/MDI-X Ethernet switch  
2 FXS POTS interfaces  
1 USB 2.0 host/master  
Wi-Fi IEEE 802.11b/g on board
- Extras External dipole antenna  
Restore factory defaults button  
WPS
- Dimensions (h x d x w) 33 x 160 x 240 mm (1.3 x 6.3 x 9.45 in.)
- AC Voltage 100-240 VAC (switched mode power supply)
- Temperature 0° - 40° C (32 - 104 F)
- Humidity 20% to 80%

### DSL Modem Specifications

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- 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

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- 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

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- 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

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

### Wireless Performance and Security

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- 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
- 64/128bit WEP encryption
- Wireless client MAC or hardware address-based access control (with physical registration button)

### Enabling Technologies

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- 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

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## 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 VDSL Gateway
- DSL cable (RJ11)
- Ethernet cable (RJ45)
- Power supply unit
- Setup CD and Leaflet
- Filter or splitter (optional)

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

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