TG789vn

Wireless n VoIP
Ultra Broadband Gateway

On January 27ᵗʰ 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.

Innovation at its Best

The Technicolor TG789vn is a unique future-proof triple-play service gateway allowing VDSL2 connectivity while providing Voice over IP functions for residential and business users.

A dedicated Gigabit Ethernet WAN port and WAN Port Auto-Sensing makes the Technicolor TG789vn also the ideal service gateway for deployment in fiber-based access networks.

The Technicolor TG789vn offers next to four Fast Ethernet LAN ports, an IEEE 802.11b/g/n wireless LAN Access Point.

Future Proof Design

Thanks to the service memory platform, the Technicolor TG789vn 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: for example operators can add their own brands and colours.

TELECOM

DATA

VOICE

VIDEO

Features at a Glance

- Integrated VDSL2 modem
- 1 Gigabit Ethernet WAN port
- 4 Fast Ethernet ports to connect multiple devices, such as PCs, laptops, set top boxes...
- Wireless networking on-board: 11b/g/n (2.4 GHz)
- Wi-Fi Protected Setup
- 1 FXO analogue port
- 2 FXS ports
- Media sharing: UPnP A/V and DLNA
- 2 USB 2.0 masters
- Remotely manageable: TR-069, TR-104, TR-098, TR-111
- Innovative easy-customizable design
- Future proof hardware and software

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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 sacrifycing quality or transfer speeds.

Easy is Key

Like all Technicolor gateways, the Technicolor TG789vn interoperates seamlessly with the Technicolor Gateway Setup 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 Technicolor Gateway Setup 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 Technicolor TG789vn offers best-in-class TR-069 interoperability with main ACS vendors and even completes the standard with proprietary vendor extension to increase the range of functionality available.

TR-111 support allows simple management of LAN devices like TR-135 enabled Set-Top Boxes (STBs) connected to the gateway and thanks to its TR-140 support even a hard disk connected to the USB port of the Technicolor TG789vn can be remotely managed. TR-104 for VoIP is implemented for the configuration and management of all voice services.

Media Sharing

The Technicolor TG789vn 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.

Voice over IP

The Technicolor TG789vn offers POTS phone connectors to accommodate phones and faxes. 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.

On top of a wide range of services like caller ID, CLIR, call waiting, call forwarding, 3-way conference and message waiting notification, the Technicolor TG789vn boasts some unique voice features:

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

Advanced in Security

The Technicolor firewall guarantees users the ultimate level in network security. Through integration with NAT, the firewall leverages all the Application Level Gateways (ALGs) provided in the NAT context to minimize undesired service impact. The firewall provides Stateful Packet Inspection (SPI), and an integrated Intrusion Detection and Prevention System (IDS) engine monitors a wide range of attack patterns, and logs potential security breaches to a local cache or remote server.

The Technicolor TG789vn also supports powerful wireless security mechanisms, such as Wi-Fi Protected Access (WPA2) allowing users to communicate and access data at the highest level of network security.

WPS

With Wi-Fi Protected Setup your wireless home network is set up with the highest level of encryption by just pushing a button.

It allows home users who know little of wireless security to connect to and configure a secure network, without having to remember or save your detailed security information.

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Technical Specifications

Hardware Specifications

- Interfaces WAN — RJ-11 DSL line port
  1 Ethernet WAN 10/100/1000 Base-T port
  1 Full FXO port
- Interfaces LAN — 4-port autosensing 10/100Base-T auto-MDI/
  MDI-X Ethernet LAN switch
  2 FXS POTS ports
  2 USB 2.0 hosts/masters
  Wi-Fi IEEE 802.11b/g/n on board
- Extras — WPS button
  ECO button
  Power button
  Reset button
- Dimensions — 195 x 60 x 230 mm (9 x 2.4 x 9.7 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
  Maximum Rate: 24 Mbps for downstream and
  3 Mbps upstream
- VDSL2 compliance — Up to 17 MHz profiles (POTS/ISDN)

Management

- User Friendly GUI via HTTP and HTTPS
- GUI-embedded Easy Setup wizard
- On demand Remote GUI assistence (helpdesk)
- Web-browsing Intercept (install / diagnostics)
- PC (wireless) Technicolor Gateway Setup Wizard
- TR-069 CPE WAN Management Protocol
- TR-104 Voice Service Provisioning
- TR-098 Internet Gateway Device Management
- TR-111 Home Network Device Management
- TR-140 Storage Service Provisioning
- TR-064 LAN Side Configuration
- Zero-Touch Auto-Provisioning

Services

- Printer sharing
- Content sharing — Samba + NTFS (optional) File Server
  UPnP™ Media Server
  DLNA® DMS
  Metadata support
- Remote HDD file access
- Website URL and Content-based filtering (optional)
- Open architecture for 3rd party application development

Wireless Performance and Security

- Wi-Fi IEEE 802.11b/g/n access point Wi-Fi CERTIFIED®
- WPA(2)™-Personal, WEP™
- Wi-Fi Multimedia (WMM®)
- Wi-Fi Protected Setup (WPS™)
- Up to 4 BSSIDs (virtual AP) support
- Security and service segregation per SSID
- Dynamic rates switching for optimal wireless rates
- RX/TX switched diversity
- Manual/Auto radio channel selection

Firewall Security

- Stateful Packet Inspection Firewall (SPIF)
- Customizable firewall security levels
- Intrusion detection and prevention (DoS, SYN Flood, Ping of Death, Fraggle, LAND, Teardrop, etc.)
- 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 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)
- IEEE 802.1q VLAN bridging, Multiple bridge instances

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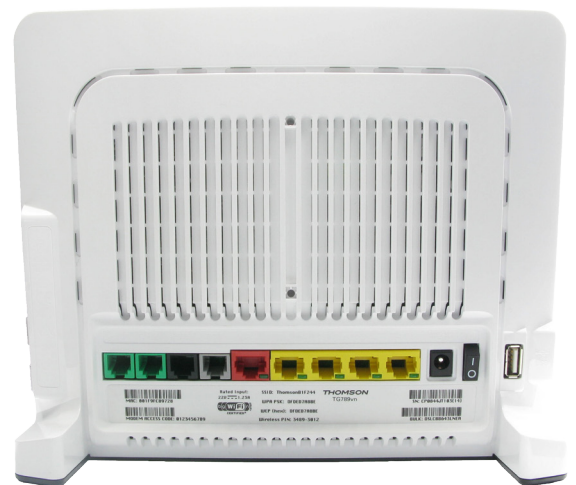## Wireless n VoIP
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Technical Specifications

Voice over IP Features

- Voice Functionality
  - Signalling: SIP, MGCP (optional), H.323 (optional)
  - Codecs: G.711, G.726, G.729, Wideband (G.722), T.38
  - Flexible Telephone number per FXS, 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 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-n VoIP Multi-Service Ethernet WAN VDSL2 Gateway
- DSL cable (RJ-11)
- 2 Ethernet cables (RJ-45)
- Power supply unit
- Setup CD and Leaflet
- Filter or splitter (optional)

Technicolor TG789vn back panel

Technicolor Professional Services are available to address your demands for qualified technical support & warranty, product maintenance, access to training courses and tailor-made solutions to specific product evolution. For more information, please ask your usual contact person.

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