

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.

TELECOM
DATA
VOICE
VIDEO

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, a 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.

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 sacrificing quality or transfer speeds.

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...

Easy is Key

The Technicolor TG789vn is easy to use through simple 'plug and play' and easy to install with the Technicolor Gateway Setup Wizard, making the setup of a wireless home network as easy as clicking a button.

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 is completely designed according to the TR-069 Data Model, through which the device can be configured remotely by the operator without interfering the end user experience. In addition, 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.

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Technical Specifications

Hardware Specifications

- Interfaces WAN
 - RJ11 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
 - Reset button
- 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, 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 assistance (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™-Personal / WPA2™-Personal, WEP™
- Wi-Fi Multimedia (WMM®)
- Wi-Fi Protected Setup (WPS™)
- Up to 4 virtual SSID APs 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 (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 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)
- IEEE 802.1q VLAN bridging, Multiple bridge instances

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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
 - 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 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 (RJ11)
- 2 Ethernet cables (RJ45)
- 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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