technicolor

TG789vn v3

Wireless n VoIP
Ultra Broadband Gateway

Innovation at its Best

The accelerating growth of WAN and LAN traffic is pushing to look to higher-speed network technologies to solve the bandwidth crunch.

The Technicolor TG789vn v3 is a unique future-proof triple-play service gateway allowing VDSL2 connectivity while providing Voice over IP functions for residential users.

A dedicated Gigabit Ethernet WAN port and WAN Port Auto-Sensing make the Technicolor TG789vn v3 also the ideal service gateway for deployment in mixed DSL and fiber-based access networks.

The Technicolor TG789vn v3 offers next to four Fast Ethernet LAN ports, a IEEE 802.11b/g/n wireless LAN Access Point.

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: 802.11b/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 for hard disk, printer, 3G adapter ...
- Remotely manageable: TR-069, TR-098, TR-104, TR-111
- Built-in stateful firewall, parental control
- IPv6 ready

Easily Manageable

The Technicolor TG789vn v3 offers best-in-class TR-069 interoperability with main ACS vendors and even completes the standard with proprietary vendor extensions 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. TR-104 for VoIP is implemented for the configuration and management of all voice services.

Home Networking with Easy Installation

Like all Technicolor gateways, the Technicolor TG789vn v3 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 are needed, 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.

Furthermore, thanks to the Flexiport feature, the Technicolor TG789vn v3 automatically detects the Ethernet port where a STB is connected. This simplifies the installation process of Internet Protocol TeleVision (IPTV) for end users.

Voice over IP

The Technicolor TG789vn v3 offers phone POTS ports to accommodate phones and faxes. Once the gateway is registered with a Voice over IP (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, CLIP, CLIR, call waiting, call forwarding, 3-way conferencing and message waiting notification.

Media Sharing

The Technicolor TG789vn v3 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.

Highest 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 v3 also supports powerful wireless security mechanisms, such as Wi-Fi Protected Access (WPA2) together with a secure and user friendly connection and configuration mechanism for wireless clients (WPS).

The support of multiple SSIDs in the gateway enables support for up to four independent wireless access networks. These additional wireless networks allow other wireless users to enjoy the high performance access without compromising the integrity of the basic network, thus keeping the original network access limited and secure.

ECO

Technicolor offers its customers ECO labeled products. Next to carefully selected plastics and packaging to minimize the ecological footprint, the gateways benefit from a unique combination of hardware and software features that reduce power consumption substantially. For instance, a button allows the user to disable/enable the wireless access point when its function is not required.

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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	
	Reset button	
	Power 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)

- ■ Supports Dying Gasp

Management

- ■ Customizable User Friendly GUI via HTTP and HTTPS
- ■ Unified Management Interface (MBus)
- ■ WAN Port Auto-Sensing: Automatic selection and configuration of WAN interface
- ■ Web services API for remote access (Portal, management, diagnostics, applications,...)
- ■ 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-098 Internet Gateway Device Management
	TR-104 Voice Service Provisioning and configuration
	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 file server
	UPnP A/V™ Media Server and control point (optional)
	Certified DLNA® DMS
	HDD file systems: FAT32, NTFS (optional)
	Metadata support
	Remote HDD file access

- ■ 3G USB adapter support
- ■ Dynamic DNS
- ■ Website URL and Content-based filtering (optional)

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

Security

- ■ Stateful Packet Inspection Firewall (SPIF)
- ■ Customizable firewall security levels
- ■ Intrusion detection and prevention (DoS, SYN Flood, Ping of Death, Fraggle, LAND, Teardrop...)
- ■ DMZ
- ■ Multi-level Access Policy
- ■ "SIM-Lock" Provider Locking

Networking

- ■ Symmetrical NAT with Application Helpers (ALGs)
- ■ Game and Aplication Sharing NAT PortMaps
- ■ DHCP conditional serving & relay, DNS server & relay
- ■ IGMPv3 proxy
- ■ IGMP snooping
- ■ DHCP spoofing
- ■ Flexiport (automatic selection of Ethernet port bridged IPTV)
- ■ IEEE 802.1q VLAN bridging, Multiple bridge instances
- ■ IPv6 ready

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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

Quality of Service (QoS)

■ ATM QoS	UBR, VBR-nrt, VBR-rt, CBR shaping, queuing and scheduling
	CLP tagging
■ IP QoS	Flexible classification (ALG aided)
	IP rate limiting (two-rate remarking/dropping)
	DSCP (re) marking
	TCP ACK optimization
	Dynamic Link Fragmentation
	Per service class connection/resource reservation
■ Ethernet QoS	Priority or C-VLAN/S-VLAN Tagging
	Switch port queuing and scheduling
■ Wireless QoS	WMM (BE, BK, VI, VO Access Categories) queuing and scheduling

Content of the Box

- ■ Wireless-n VoIP Multi-Service Ethernet WAN VDSL2 Gateway
- ■ DSL cable (RJ-11)
- ■ Ethernet cable (RJ-45)
- ■ Power supply unit
- ■ Setup CD and Leaflet
- ■ Filter or splitter (optional)

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