

MediaAccess TG588v

Wireless n
Ultra Broadband Gateway



TELECOM

DATA

VIDEO

Best-In-Class Ultra Broadband

The accelerating growth of WAN and LAN traffic is pushing operators to look to ultra-high-speed network technologies to solve the bandwidth crunch. VDSL2 combined with Gigabit Ethernet enables extremely high bandwidth and guarantees superior quality in voice, data and video. Adding on top some of the latest performance-enhancing technologies gets the utmost out of existing infrastructures:

- G.vector: effectively cancels the crosstalk noise inherently present in VDSL2 bands. With vectoring, every line in a binder can operate at peak performance, as if there were no other VDSL2 lines in that binder.
- G.INP ("Impulse Noise Protection"): makes sure that no errors occur on the DSL connection, even under extreme conditions, so that high-quality video transmission is guaranteed at all times. It is based on the principle of retransmission.

Furthermore, the latest dual stream wireless n technology ensures robust in-home wireless distribution which reduces wiring complexity and provides true mobility without sacrificing Quality of Service (QoS) and Quality of Experience (QoE) or transfer speeds.

A dedicated Gigabit Ethernet WAN port (optional) and AutoWAN sensing make the TG588v the ideal service gateway for deployment in fiber-based access networks.

Features at a Glance

- Integrated VDSL2 modem
- 1 GE WAN port (optional)
- AutoWAN sensing™
- 4 FE LAN ports to connect multiple devices, such as PCs, laptops, set-top boxes...
- Wireless networking on-board: IEEE 802.11n 2x2 (2.4 GHz)
- Wi-Fi Protected Setup (WPS™)
- Media sharing: UPnP A/V and DLNA
- 1 USB 2.0 master for hard disk, printer, 3G adapter ...
- Remotely manageable: TR-069, TR-098, TR-104, TR-111
- Built-in stateful firewall, parental control
- IPv6 ready
- Future-proof hardware and software
- Designed to meet the latest ECO standards



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Easy to Use

The TG588v 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 effortless 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.

With Wi-Fi Protected Setup (WPS) users can easily connect with the TG588v wireless network by simply pushing a button or entering a PIN code. It allows home users to easily connect to a secure network without any complex configuration and eliminates the need to remember or store their security information in an unsafe way.

Highest Security

The Technicolor firewall guarantees users the ultimate network security level. Through integration with NAT, the firewall leverages all the Application Level Gateways (ALGs) provided in the NAT context to minimize undesired service impacts. 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 TG588v 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.

Media Sharing

The TG588v acts as a fully compliant DLNA 1.5 Digital Media Server (DMS) and enables 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. In addition, the TG588v supports hot plugging of USB hard disk drives, allowing you to simply plug and play devices without the need to switch the gateway off first.

IPv6 Enabled

With the approaching IPv4 address pool depletion, our products need to be ready for IPv6. Technicolor is a frontrunner in the introduction of IPv6 on its devices, with the TG588v being enabled for multiple IPv6 field scenarios. Internet Protocol version 6 is the next generation of Internet technologies aiming to effectively support the ever-expanding Internet usage and functionality, and also to address security concerns that exist in an IPv4 environment.

Technicolor aims to introduce IPv6 as smoothly as possible in customer networks. By providing in-depth knowledge of the networking stack, we guide our customers in their transition from IPv4 to IPv6.

Easy to Manage

The TG588v is completely designed according to the TR-069 data model through which the device can be configured remotely by the operator without interrupting the end user's experience. In addition, the Device:2 data model is available to increase remote management capabilities such as life cycle management, diagnostics and applications.

ECO

Technicolor is committed to offers its customers sustainable products and implements a set of ECO features to reach the best possible environmental performance. In addition to carefully selected plastics and packaging to minimize the ecological footprint, the TG588v benefits from a unique combination of hardware and software features that reduce power consumption substantially.

Professional Services

To reinforce our extensive portfolio of digital home solutions, Technicolor has a dedicated Professional Services team to make sure that every deployment is a success, from initial provisioning and integration to operations, upgrades, ongoing support and beyond.

Our wide array of services spans the entire customer project lifecycle, encompassing:

- Expert consulting
- Seamless system integration
- Warranty on all our products
- Qualified technical support and maintenance
- Efficient repair, refurbishment and recycling

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Technical Specifications

Hardware Specifications

■ Interfaces WAN	RJ-11 DSL line port 1 Ethernet WAN 10/100/1000 Base-T port (optional)
■ Interfaces LAN	4-port autosensing 10/100Base-T auto-MDI/MDI-X Ethernet LAN switch 1 USB 2.0 host/master
■ Extras	Wi-Fi IEEE 802.11n 2.4 GHz on-board Power button WPS button Reset button
■ Dimensions	160 x 126 x 25 mm (6.3 x 4.9 x 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 standards	
■ 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	ITU G.993.2 SOS SRA INM Up to 17 MHz profiles (POTS/ISDN) ITU-T G.993.5 (G.vector) ITU-T G.998.4 (G.inp)

Management

- Customizable user-friendly GUI via HTTP and HTTPS
- Unified management interface (MBus)
- Web services API for remote access (portal, management, diagnostics, applications,...)
- GUI-embedded Easy Setup wizard
- On-demand remote GUI assistance (helpdesk)
- Web-browsing intercept (install / diagnostics)
- Technicolor Gateway Setup wizard
- TR-069 CPE WAN Management Protocol
 - TR-098 Internet Gateway Device Management
 - TR-143 network throughput performance tests and statistical monitoring
 - TR-181i2 Device:2 data model
 - TR-157a3 Life Cycle Management (LCM)
 - TR-111 home network device management
 - TR-140 storage service provisioning
- TR-064 LAN side configuration
- AutoWAN sensing™ Automatic selection and configuration of WAN interface(s) and configuration
- Zero-touch autoprovisioning

Services

- Printer sharing
- 3G mobile
- URL- and content-based website filtering (optional)
- Open architecture for 3rd party application and UI development
- HDD file systems: FAT32 (NTFS, EXT2, EXT3, HFS+ optional)
- Content sharing
 - Samba file server
 - UPnP A/V™ media server and control point
 - Certified DLNA® DMS
 - Metadata support
 - Remote HDD file access

Wireless Performance and Security

- Wi-Fi access point, Wi-Fi Certified®
IEEE 802.11n 2.4 GHz 2x2 AP
- 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...)
- DeMilitarized Zone (DMZ)
- Multi-level access policy
- "SIM-lock" provider locking

Networking

- Symmetrical NAT with application helpers (ALGs)
- Game and application sharing NAT port maps
- 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

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Technical Specifications

IPv6 Networking

- IPv4 / IPv6 dual IP stack
- Supported models PPP(oE)(oA) – IPoE(oA)
- Transitioning 6rd/6to4/6in4
DSLite
- Stateful connection tracking / stateful inspection firewall
- DHCPv6 Stateful/stateless DHCPv6 client
Stateless DHCPv6 server
Relay
Prefix Delegation
- DNS v4/v6 Proxy
- ULA
- ICMPv6
- IPv6 Quality of Service
- MLDv1/v2

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

Environmental Features

- ECO mode for more intelligent power saving
- Wi-Fi ON/OFF button
- ECO LEDs

Content of the Box

- Wireless n Ultra Broadband Gateway
- DSL cable (RJ-11)
- Ethernet cable (RJ-45)
- Power supply unit
- Setup CD and leaflet(s) (optional)
- Filter or splitter (optional)

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