

technicolor



FEEL THE WONDER



MediaAccess TG588v v2

Wireless
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. The TG588v v2 combines VDSL2 with some of the latest performance-enhancing technologies to get the utmost out of existing infrastructures:

- Gvector: 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 wireless technologies ensure 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.

■ Flexible & Future-Proof Software Stack

The TG588v v2 is enriched with Technicolor Homeware, a reliable and managed middleware that offers an open architecture with multiple application environments fit to open up the connected home and deliver an unlimited spectrum of value-added services and applications.

Featuring a platform agnostic architecture, Technicolor Homeware is a fully portable solution that ensures the fastest time to market. Moreover, its modularity and enhanced life cycle management make it easy to add or remove components to or from a software release, while enabling second & third party development.

Leveraging open source, Technicolor Homeware embraces different execution environments and supports current and emerging trends, transforming the gateway into a full-blown app platform.

Features at a Glance

- Integrated VDSL2 modem
- AutoWAN sensing™
- 4 FE LAN ports
- Wi-Fi interface
 - IEEE 802.11n 2.4 GHz (2x2), optional with high power
- 1 highspeed USB 2.0 master port
- Seamless media sharing (UPnP A/V™ and DLNA®)
- Future-proof full service platform supporting AllSeen communication framework and apps
- Enabled to support Wi-Fi Doctor® (sold separately) and Wi-Fi Controller (sold separately)
- Non-service-affecting platform software upgrades (dual bank memory)
- IPv4 & IPv6 enabled
- Designed according to the latest ECO standards



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■ “I speak AllSeen”

Technicolor is a proud premier member of the AllSeen Alliance. The TG588v v2 has hence been developed to run AllSeen’s open, agile and distributed communication framework that addresses the issue of disparate ecosystems used for device interaction. With AllSeen, you can seamlessly bridge all your connected devices, applications and over-the-top cloud solutions, regardless of brand or ecosystem.

As the largest initiative to unify the language that connected life devices speak, AllSeen lets you create totally new use cases for the “Internet of Things” (IoT).

To learn more about AllSeen, visit: www.AllSeenAlliance.org

■ Easy to Use

Like all Technicolor modems and gateways, the TG588v v2 is an easy to use, easy to install device.

For convenience of the end user, the easy-to-access LEDs provide a clear indication of start-up sequence, operational status, and connectivity status.

Multiple integrated web pages also allow direct access to the status and settings, including privacy and security information.

■ Media Sharing

The TG588v v2 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 v2 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.

■ Easy to Manage

The TG588v v2 is completely designed according to the TR-069’s TR-098 IGD data model through which the device can be configured remotely by the operator without interrupting the end user’s experience.

In addition, the TR-181i2 Device:2 data model is made available to further increase the remote management capabilities towards life cycle management, diagnostics and application management.

■ 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 v2 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.

■ Highest Security

The TG588v v2 Stateful Packet Inspection (SPI) firewall guarantees users the ultimate network security level. Through integration with Network Address & Port Translation (NAPT), the firewall leverages all the Application Level Gateways (ALGs) provided in the NAT context to minimize undesired service impacts.

Advanced smart parental controls, security audit services, access logging and monitoring are optionally available for home, hotspot and mobile data network users to create a fully personalized and time-based access control environment, based on individual user profiles and web usage behaviour.

The TG588v v2 also supports powerful wireless security mechanisms, such as Wi-Fi Protected Access (WPA, WPA2) together with the secure and user friendly Wi-Fi Protected Setup (WPS) connection and configuration mechanism for connecting wireless clients.

In addition, the TG588v v2 supports multiple wireless networks (mSSID) enabling to set up independent virtual wireless access points, including controlled wireless hotspots. These additional wireless networks allow other wireless users to enjoy high-performance access without any compromise on the integrity of the basic network, thus keeping the original network access limited and secure.

■ ECO

Technicolor is committed to offer 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 v2 benefits from a unique combination of hardware and software features that reduce power consumption substantially.

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Technical Specifications

Hardware

■ Interfaces WAN	1 RJ-11 DSL line port
■ Interfaces LAN	4-port autosensing 10/100 Base-T Ethernet LAN switch IEEE 802.11n 2.4 GHz on-board 1 USB 2.0 master port
■ Buttons	Wi-Fi on/off button WPS button Reset button Power button
■ Power input	DC jack
■ Power supply	12 VDC external PSU
■ AC Voltage	100 - 240 VAC (switched mode power supply)
■ Dimensions	137 x 35 x 125 mm (5.39 x 1.38 x 4.92 in.)
■ Temperature	0° - 40° C (32° - 104° F)
■ Humidity	20 % to 80 %

xDSL modem

■ Supports multi mode standards	
■ ADSL compliancy	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) Rates up to 8 Mbps downstream and 1 Mbps upstream
■ ADSL2 compliancy	ITU-T G.992.3 Annex A, B, L (G.dmt.bis) ITU-T G.992.4 Annex A, B, L (G.lite.bis) ITU-T G.998.4 (G.inp) Rates up to 12 Mbps downstream and 1 Mbps upstream
■ ADSL2+ compliancy	ITU-T G.992.5 Annex A, B, M ITU-T G.998.4 (G.inp) Rates up to 24 Mbps downstream and 3 Mbps upstream
■ VDSL2 compliancy	ITU-T G.993.2 SOS SRA INM ITU-T G.993.5 (G.vector) ITU-T G.998.4 (G.inp) Up to VDSL2 profile 17a
■ Supports Dying Gasp	

Wireless

■ Wi-Fi access point, Wi-Fi certified®	2.4 GHz (2x2) IEEE 802.11n AP, optional with high power
■ 2.4 GHz Wi-Fi power	Standard: Up to 20dBm (100mW EIRP) High Power (optional): Up to 24dBm (250mW EIRP)
■ Wi-Fi Protected Setup (WPS™)	
■ Wi-Fi security levels	WPA2™-Personal / WPA™-Personal
■ Wi-Fi Multimedia (WMM®) and WMM-Power Save	
■ Up to 4 BSSIDs (virtual AP) support	
■ Wireless hotspot capabilities	
■ 2x2 MIMO 2.4 GHz Wi-Fi features	SGi STBC 20/40 MHz coexistence
■ RX/TX switched diversity	
■ Dynamic rates switching for optimal wireless rates	
■ Manual/auto radio channel selection	

Management

■ Customizable user-friendly GUI via HTTP and HTTPS	
■ Web services API for remote access (portal, management, diagnostics, applications...)	
■ Web-browsing intercept (install/diagnostics/captive portal)	
■ AutoWAN sensing™ (automatic selection and configuration of WAN interfaces)	
■ TR-069 CPE WAN Management Protocol (CWMP)	TR-098 Internet Gateway Device (IGD) data model TR-111 home network device management TR-140 storage service provisioning (optional) TR-143 network throughput performance tests and statistical monitoring TR-157a3 Life Cycle Management (LCM) TR-181i2 Device:2 data model
■ Zero-touch autoprovisioning	

Services

■ Support of AllSeen communication framework and apps, including access to real time diagnostics	
■ Life Cycle Management (LCM) for developing advanced services support	
■ Open architecture for 3rd party application and UI development	
■ 3G/LTE/4G mobile fall-back WAN connection (through USB adapter)	
■ Wireless hotspot (optional, on request)	Passpoint GRE tunneling EAP Fon
■ Parental control	URL- and (optional) content-based website filtering Time-based access control
■ Printer sharing	IPP LPD
■ Content sharing	Server Message Block (SMB) Samba file server UPnP A/V™ media server and control point DLNA® DMS Metadata support
■ HDD file systems	FAT32, NTFS, ExFAT EXT2, EXT3, EXT4 HFS+

Networking

■ Symmetrical NAT with application helpers (ALGs)	
■ Game and application sharing NAT port maps	
■ DHCP conditional serving & relay	
■ DNS server & relay	
■ IGMPv3 proxy (Fastleave)	
■ IGMP snooping (full routed)	
■ DHCP spoofing	
■ IEEE 802.1q VLAN bridging, multiple bridge instances	
■ Multicast to unicast translation on Wi-Fi interfaces	

IPv6 networking

■ IPv4 / IPv6 dual IP stack	
■ Supported models	PPP(oE)(oA) IPoE(oA)
■ Transitioning	6rd/6to4/6in4 DS-Lite
■ Stateful connection tracking	
■ Stateful inspection firewall	
■ DHCPv6	Stateful/stateless DHCPv6 client Stateless DHCPv6 server Relay Prefix Delegation
■ ICMPv6	

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Technical Specifications

Quality of Service

- 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
Dynamic link fragmentation
- Ethernet QoS Priority or C-VLAN/S-VLAN tagging
Ethernet switch port queuing and scheduling
- Wireless QoS WMM (BE, BK, VI, VO access categories) queuing and scheduling

Security

- Stateful Packet Inspection Firewall (SPIF)
- Customizable firewall security levels
- Intrusion detection and prevention
- DeMilitarized Zone (DMZ)
- Multilevel access policy
- Security and service segregation per SSID

ECO design

- ECO mode for more intelligent power saving
- Wi-Fi on/off button
- WMM-Power Save

Content of the box

- MediaAccess TG588v v2 with stand
- DSL cable (RJ-11)
- Ethernet cable (RJ-45)
- Power supply unit
- Quick Setup leaflet(s) (optional)
- Safety Instructions & Regulatory Information booklet (optional)
- Filter(s) or splitter(s) (optional)

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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