

# TG589vn

Wireless n Ultra Broadband Router



TELECOM	
DATA	
VIDEO	

## Innovation at its Best

As experienced VDSL2 player and with a leading role in VDSL2 interoperability, Technicolor launches a new future-proof wireless VDSL2 gateway, the Technicolor TG589vn.

The Technicolor TG589vn offers next to 4 Ethernet ports, an additional 802.11b/g/n wireless LAN interface and has a dedicated front-end with auto-sensing between VDSL2 and ADSL2+.

## Future Proof Design

Thanks to the service memory platform, the Technicolor TG589vn 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
- 4 Fast Ethernet LAN 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
- UPnP A/V and DLNA
- 1 USB master 2.0 for Hard Disk, printer, 3G adapter...
- Remotely manageable: TR-069, TR-098, TR-111
- Innovative easy-customizable design
- Future proof hardware and software
- IPv6 ready



# TG589vn

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### Easily Manageable

The Technicolor TG589vn 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.

### Home Networking with Easy Installation

Like all Technicolor gateways, the Technicolor TG589vn 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 TG589vn automatically detects the Ethernet port where a STB is connected. This simplifies the installation process of Internet Protocol TeleVision (IPTV) for end users.

### Media Sharing

The Technicolor TG589vn 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 TG589vn 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.

## Technical Specifications

### Hardware Specifications

- Interfaces WAN RJ-11 DSL line port
- Interfaces LAN 4-port autosensing 10/100Base-T auto-MDI/MDI-X Ethernet LAN switch  
1 USB 2.0 host/master  
Wi-Fi IEEE 802.11b/g/n on board
- Extras WPS button  
ECO button for power saving  
Reset button
- Dimensions 195 x 60 x 230 mm (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

- 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)
- PC (wireless) Technicolor Gateway Setup Wizard
- TR-069 CPE WAN Management Protocol 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 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
- Website URL and Content-based filtering (optional)
- Open architecture for 3rd party application and UI 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

### 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

### Networking

- Symmetrical NAT with Application Helpers (ALGs)
- Game and Application 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

### 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 Multi-Service Ethernet WAN VDSL Gateway
- DSL cable (RJ-11)
- Ethernet cable (RJ-45)
- Power supply unit
- Setup CD
- Safety Reference Leaflet
- Filter or splitter (optional)



Technicolor TG589vn 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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E-DOC-DAT-20100817-0002 v2.0  
DS-121-v03-1105