

# TG703

Entry-level Integrated Access Device



## TELECOM

DATA

VOICE

VIDEO

## Versatile IAD

The Technicolor TG703 is an entry-level Integrated Access Device (IAD) allowing ADSL2+ connectivity while providing Voice over IP functions for residential users. It is also backwards compatible with ADSL offering auto-negotiation capability. For local networking, the Technicolor TG703 offers next to four Ethernet ports, a wireless LAN interface (IEEE 802.11n 1x1 for enhanced IEEE 802.11b/g performance).

## Triple Play

This VoIP gateway can manage full triple-play service: high-speed Internet access and video service together with telephony.

The Technicolor TG703 offers one phone connector to accommodate a phone or fax. 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. The gateway offers a wide range of services like caller ID, CLIR, call waiting, call forwarding, 3-way conference and message waiting notification.

It is an ideal product for unbundled scenarios where PSTN is not available and voice services are provided via a full-digital loop.

## Features at a Glance

- Integrated ADSL2+ modem
- 4 Fast Ethernet ports to connect multiple devices, such as PCs, laptops, set top boxes...
- Wireless networking on-board: 802.11n 1x1 for enhanced 802.11b/g performance
- Wi-Fi Protected Setup (WPS)
- 1 FXS port for phone and/or fax
- Remotely manageable: TR-069, TR-104, TR-098, TR-111
- CoCv3 compliant - Tier 2011
- IPv6 ready



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### Fast Validation Cycles

The Technicolor TG703 runs the same Technicolor Platform Software that has been successfully deployed through the whole world and inherits all the know-how cumulated of 15 years being consistently number one in the market with more than 75 million DSL modems shipped.

Highly configurable and easily customizable, the Technicolor TG703 can be adapted to almost any network and customer scenario in no time, reducing validation cycles and accelerating the time-to-market.

### Easily Manageable

The Technicolor TG703 offers best-in-class TR-069 interoperability with main ACS vendors and even completes the standard with proprietary vendor extension 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 and 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 TG703 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, 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 TG703 automatically detects the Ethernet port where a STB is connected. This simplifies the installation process of Internet Protocol TeleVision (IPTV) for end users.

### Advanced in 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 TG703 also supports powerful wireless security mechanisms, such as Wi-Fi Protected Access (WPA2) allowing users to communicate and access data at the highest level of network security.

### WPS

With Wi-Fi Protected Setup your wireless home network is set up with the highest level of encryption by just pushing a button.

It allows home users who know little of wireless security to connect to and configure a secure network, without having to remember or save your detailed security information.

### 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.

Technicolor has always played a prominent leading position in ecological design, and was the first CPE vendor to sign the European Code of Conduct for Broadband Equipment. The Technicolor TG703 is fully compliant with CoC v3 - Tier 2011.

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## Technical Specifications

### Hardware Specifications

- Interfaces WAN RJ-11 DSL line port
- Interfaces LAN 4-port autosensing 10/100Base-T auto-MDI/MDI-X Ethernet switch  
Wi-Fi IEEE 802.11b/g/n 1x1 on board  
1 FXS POTS port
- Extras WPS / WLAN button  
Reset button  
Power button
- Dimensions 41 x 167 x 223 mm (1.6 x 6.6 x 8.8 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 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 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+ ADSL2+ compliance: ITU-T G.992.5 Annex A, B  
Maximum Rate: 24 Mbps for downstream and 3  
Mbps upstream
- Supports Dying Gasp

### Management

- Customizable User Friendly GUI via HTTP and HTTPS
- Unified Management Interface (MBus)
- Web services API for remote access (Portal, management,diagnostics,...)
- 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-064 LAN Side Configuration
- GUI-embedded Easy Setup wizard
- On demand Remote GUI assistance (helpdesk)
- Web-browsing Intercept (install / diagnostics / captive portal)
- PC (wireless) Technicolor Gateway Setup Wizard
- Zero-Touch Auto-Provisioning

### Wireless Specifications

- Wi-Fi IEEE 802.11b/g/n 1x1 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, etc.)
- DMZ
- Multi-level Access Policy
- "SIM-Lock" Provider Locking
- Website URL and Content-based filtering (optional)

### 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)
- UPnP™ support: enables game technologies (PS2, Xbox live, DirectPlay, ...) and conferencing functions of Microsoft Messenger
- IEEE 802.1q VLAN bridging, Multiple bridge instances
- IPv6 ready
- Dynamic DNS

### 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

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## Technical Specifications

### Voice over IP Features

- Voice Functionality Signalling: SIP, MGCP (optional), H.323 (optional)  
Codecs: G.711a / u law, G.726, G.729, T.38  
Interoperable with main market softswitches  
Signal re-injection (optional)
- 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 conferencing
  - MWI (Message Waiting Indicator)
  - Missed call E-mail
  - Click-to-dial
  - Warm line
  - Call Completion to Busy Subscriber
  - 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 VoIP Multi-User ADSL2+ Gateway
- Power supply unit
- ADSL cable (RJ-11)
- Ethernet cable (RJ-45)
- Setup CD and Leaflet
- Filter or splitter (optional)



Technicolor TG703 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-20100630-0001 2.0  
DS-136-v01-1006