technicolor

MediaAccess TG784n
Wireless n VoIP Gateway

TELECOM

DATA

VOICE

VIDEO

Best-in-class Service Platform

The Technicolor TG784n is a triple-play service gateway providing VoIP and home networking connectivity via LAN, WAN and Wi-Fi.

The TG784n can be used in different deployment models, as it can handle multiple access technologies via the ADSL2+ interface or Fast Ethernet WAN uplink port.

This service platform offers the latest 802.11n chipset for less power consumption with next-generation home networking.

More Bandwidth to the Home

This unique product features an extra Fast Ethernet WAN port with AutoWAN sensing function to connect to any PON or WiMAX network terminator for fiber or WiMAX solutions.

The AutoWAN sensing function ensures automatic detection of the WAN port and will immediately activate the corresponding WAN profile and all appropriate settings.

In house, the latest wireless standard (802.11n) offers speeds of up to 100 Mbps, a significant increase compared to the previous wireless g and b standards.

Features at a Glance

- Integrated ADSL2+ modem
- 1 FE WAN port with AutoWAN sensing™
- 4 FE LAN ports to connect multiple devices, such as PCs, laptops, set-top boxes...
- Wireless networking on-board: 802.11n
- 1 FXO analog port (optional)
- 2 FXS ports for phone and/or fax
- Home entertainment ready
- Media sharing
- UPnP A/V and DLNA
- 2 USB 2.0 masters for hard disk, printer, 3G adapter...
- Remotely manageable: TR-069, TR-104, TR-098, TR-111
- Built-in firewall
- IPv6 ready
- ECO CoC v3 compliant

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Home Networking with Easy Installation

Like all Technicolor gateways, the TG784n 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.

Easily Manageable

The TG784n is completely designed according to the TR-069 data model, through which the device can be configured remotely. In addition, TR-104 for VoIP is implemented for the configuration and management of all voice services.

TR-037 and TR-069 enable autoconfiguration of network bandwidth according to service needs, allowing seamless integration with the network's provisioning system.

Voice over IP

The TG784n offers two phone connectors to accommodate a phone and fax. 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, CLIR, call waiting, call forwarding, three-way conference and message waiting notification.

Advanced in Security

The integrated firewall guarantees users ultimate network security. The firewall minimizes undesired service impact and provides stateful inspection of packets. An integrated Denial of Service (DoS) engine monitors a wide range of attack patterns, and logs potential security breaches to a local cache or remote server.

The TG784n also supports powerful wireless security mechanisms, such as Wi-Fi Protected Access (WPA) and a Wi-Fi Protected Setup (WPS) button. This allows users to communicate and access data with efficient link quality and the highest level of network security. The TG784n also provides filtering for unwanted Internet content.

IPv6 Ready

With the approaching IPv4 address pool depletion, our products need to be ready for IPv6. 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.

In this context, the TG784n has successfully passed the Gold standard IPv6 Ready accreditation.

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.

ECO

Technicolor offers its customers ECO labeled products covering objectives that go beyond those stated in the regulations that all marketed products have to meet.

In addition to carefully selected plastics and packaging to minimize the ecological footprint, the TG784n benefits 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.

Professional Services

Technicolor offers a wide array of services:

- Hardware: Optimize warranty and hardware operations such as repair, logistics, dedicated inventories, recycling, refurbishing, ...

- Support & Maintenance contracts providing a technical support line, software support, updates, upgrades, on-site support, training. Dedicated response time can be tailored to fit your organization with BRONZE, SILVER and GOLD agreements.

- Develop specific software functions, features and GUIs to create and deploy innovative subscriber services in your market.

- Technicolor proposes Integration Services on technologies, products, third-party software to accelerate your project whilst optimizing your time to market. We can also provide resources for project management, engineering, planning, and assist your team with device interoperability tests, Proof Of Concept (POC) and trials.

- Missions to optimize your Total Cost of Ownership (TCO) by analyzing your hotline calls and proposing relevant actions to reduce your OPEX budgets.

- Leveraging its many years of expertise in creating gateway and set-top box products - with over 200 million devices delivered to diverse markets all around the world - Technicolor has built an experienced and dedicated design team able to propose a great variety of new, innovative design services, ranging from unique product aesthetics to product content.

Technical Specifications

Hardware Specifications

- Interfaces WAN   RJ11 DSL line port
  1 FXO POTS port (optional)
  Ethernet WAN 10/100 Base-T
- Interfaces LAN   4-port autosensing 10/100Base-T auto-MDI/
  MDI-X Ethernet switch
  2 FXS POTS ports
  2 USB 2.0 masters
  Wi-Fi IEEE 802.11b/g/n on board
- Extras   Reset button
  WPS button
- Dimensions (h x d x w)   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 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
- Supports Dying Gasp (standard)

Management

- User-friendly GUI via HTTP and HTTPS
- AutoWAN sensing™: automatic selection and configuration
  of WAN interface
- 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-104 voice service provisioning
  TR-098 Internet Gateway Device Management
  TR-111 home network device management
  TR-140 storage service provisioning
  TR-064 LAN side configuration
- Zero-touch autoprovisioning

Services

- Printer sharing
- Content sharing   Samba / FAT
  NTFS (optional)
  HFS (optional)
  EXT2/EXT3 (optional)
  UPnP™ media server
  DLNA® DMS
  Metadata support
  Remote HDD file access
- USB 3G adapter support
- Dynamic DNS
- Open architecture for 3rd party application development

Wireless Performance and Security

- Wi-Fi IEEE 802.11b/g/n access point
- Wi-Fi CERTIFIED®
- WPA™-Personal / WPA2™-Personal , WEP™
- Wi-Fi Multimedia (WMM®)
- Wi-Fi Protected Setup (WPS™)
- Up to 4 virtual SSID APs support
- Security and service segregation per SSID
- Dynamic rates switching for optimal wireless rates
- Manual/auto radio channel support

Firewall Security

- Stateful Packet Inspection Firewall (SPIF)
- Customizable firewall security levels
- Intrusion detection and prevention (DoS, SYN Flood, Ping of Death,
  Fraggle, LAND, Teardrop, etc.)
- URL- and content-based website filtering
- DeMilitarized Zone (DMZ)

Enabling Technologies

- Quality of Service: ATM, Ethernet, Wi-Fi, IP
- FLEXIBundLE: multirole user authorization
- Hyper-Nat: Symmetrical NAT with application helpers
- Game and application sharing NAT Portmaps
- "SIM-lock" provider locking
- DHCP conditional serving & relay, DNS server & relay
- IGMPv3 proxy (FastLeave)
- IGMP snooping (Full routed)
- Flexiport (any 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
- **Optional FXO** — Full 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 conferencing
  - MWI (Message Waiting Indicator)
  - Missed call email
  - Click to dial
  - Warm line
  - Call completion to busy subscriber
  - Forced FXO
  - Abbreviated number
  - Common DECT number
  - Common number in/outgoing call
  - Anonymous Call Rejection (ACR)
  - Distinctive ringing
  - Voice Mail on No Reply (VMNR)
  - Support for secondary outbound proxy
  - DNS NAPTR, DNS SRV

Content of the Box

- Wireless n VoIP Gateway
- Power supply unit
- ADSL cable (RJ11)
- Ethernet cable (RJ45)
- Setup CD and leaflet
- Filter or splitter (optional)

Technicolor TG784n back panel

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