

TG797n v3

Wireless n VoIP Gateway
with Embedded DECT Base



TELECOM

DATA

VOICE

VIDEO

Easy VoIP Deployment with DECT

Especially conceived for dual and triple play offers, the Technicolor TG797n v3 allows for painless deployment of Voice over IP without re-cabling the end user home. With an integrated DECT base, new lines can be added by simply pairing new cordless handsets*, while legacy FAX equipment can still be connected to the FXS port.

Additionally, the Technicolor voice stack is compatible with the main softswitches and IMS cores of the market and supports advanced voice services like CLID, CLIR, call waiting, call forwarding, 3-way conferencing and message waiting notification.

One Gateway, multiple networks

The Technicolor TG797n v3 is especially suited for complex network scenarios where several access technologies, such as ADSL and Fiber To The x (FTTx) co-exist. Thanks to its WAN Port Auto-Sensing feature the Technicolor TG797n v3 can automatically select among DSL, Ethernet WAN or 3G (via USB adapter) interfaces and connect without any manual operation. This means simplicity for the end user and reduced complexity for the operator.

Faster, Farther

Home networking experience will definitely change with the Technicolor TG797n v3. With an improved coverage and throughput compared to any IEEE 802.11b/g or 802.11n 1x1 access point, the Technicolor TG797n v3 enables real-time multimedia content streaming over the Wi-Fi network everywhere in the house. Its wireless range and coverage makes it the best wireless gateway currently on the market.

Features at a Glance

- Integrated ADSL2+ modem
- 1 Gigabit Ethernet WAN port
- WAN Port Auto-Sensing
- 1 Gigabit Ethernet and 3 Fast Ethernet LAN ports
- Wireless networking on board: 802.11n 2x2 (2.4 Ghz)
- 1 FXO analogue port (optional)
- 1 FXS port for phone or fax
- Integrated DECT Multiline base station: CAT-iq 2.0 ready
- Media Sharing: UPnP A/V and DLNA
- 2 USB masters 2.0 for Hard Disk, printer, 3G adapter ...
- OSGi execution environment
- Remotely Manageable: TR-069, TR-104, TR-098, TR-111
- Built-in stateful firewall, parental control
- Non-Service-Affecting Platform Software upgrades (dual bank memory)



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High Performance Router

The Technicolor TG797n v3 is a high performance router. With a simultaneous operation of IEEE 802.11b, 802.11g and 802.11n 2x2, speed, security and performance are guaranteed. Featuring four Ethernet LAN ports of which one Gigabit, the Technicolor TG797n v3 offers seamless connection of wired and wireless devices from anywhere in the home at stunning speeds.

Furthermore, thanks to its Gigabit Ethernet WAN port, the Technicolor TG797n v3 can handle sustained routed traffic up to 400 Mbps, making it a future proof solution for the Next Generation Networks (NGNs).

Fast Validation Cycles

The Technicolor TG797n v3 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 100 million DSL modems shipped.

Easily Manageable

The Technicolor TG797n v3 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 thanks to its TR-140 support even hard disks connected to the USB port of the Technicolor TG797n v3 can be remotely managed. TR-104 for VoIP is implemented for the configuration and management of all voice services.

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 TG797n v3 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).

Services

The Technicolor TG797n v3 is based on the latest generation of chipsets that puts considerable processing power into the gateway for enabling multiple features guaranteeing efficient and robust delivery of multimedia services from the core of the network right to the end-user.

To maintain maximum performance, the Technicolor TG797n v3 incorporates flexible Quality of Service (QoS) mechanisms, including comprehensive traffic classification, traffic prioritization, IP rate limiting, IP acceleration and connection reservation to prevent peer-to-peer applications from blocking other services.

Applications

With an integrated OSGi framework and available Software Development Kits (SDKs)** operators and third parties can develop their own applications for the Technicolor TG797n v3 and its associated Technicolor handset(s) and introduce innovative offerings in their markets in order to raise ARPU or lower operational expenses.

Dynamic download of OSGi bundles without a full Platform Software upgrade and unique certificates stored in each individual gateway allow for painless and secure deployments.

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. Furthermore, the Technicolor TG797n v3 has an ECO button to activate several power reduction schemes, such as the possibility of turning off all active LEDs and replacing them with one single "ECO-LED" ***.

* To be purchased separately. For more information, please refer to the TH68 datasheet.

** Optional. To be purchased separately.

*** Patent pending. Platform Software version dependent.

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Technical Specifications

Hardware Specifications

- Interfaces WAN RJ-11 DSL line port for ADSL/POTS and ADSL/ISDN (optional)
1 FXO POTS port (optional)
1 Ethernet WAN 10/100/1000 Base-T port
- Interfaces LAN 3-port auto-MDI/MDI-X 10/100 Base-T and 1-port 10/100/1000 Base-T port Ethernet LAN switch
1 FXS POTS port
2 USB 2.0 master ports
Wi-Fi IEEE 802.11b/g/n on board
- Interfaces Other DECT multiline base station: CAT-iq™ 2.0 ready
WPS/WLAN button
ECO button
Reset button
Power button
DECT pairing/paging button
- Dimensions 37 x 181 x 257 mm (1.5 x 7.1 x 10.2 in.)
- Operation temperature 0° - 40° C (32° - 104° F)
- Humidity 20% to 80%
- AC Voltage 100-240 VAC (switched mode power supply)

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
- Supports Dying Gasp

Management

- Customizable User Friendly GUI via HTTP and HTTPS
- Unified Management Interface (MBus)
- WAN Port Auto-Sensing: Automatic selection and configuration of WAN interface
- Web services API for remote access (Portal, management, diagnostics, applications,...)
- TR-069 CPE WAN Management TR-098 Internet Gateway Device Management
TR-104 Voice Service Provisioning and configuration
TR-111 Home Network Device Management
TR-140 Storage Service Provisioning
- GUI-embedded Easy Setup wizard
- On demand Remote GUI assistance (helpdesk)
- Web-browsing Intercept (install / diagnostics / captive portal)
- PC (wireless) Technicolor Gateway Setup Wizard
- 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), HFS+ (optional)
Metadata support
Remote HDD file access
- 3G USB adapter support
- Dynamic DNS
- Website URL and content-based filtering (optional)
- Open architecture for 3rd party application and UI development
- OSGi execution environment

Wireless Performance and Security

- Wi-Fi IEEE 802.11b/g/n 2x2 access point Wi-Fi CERTIFIED®
- WPA(2)™-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
- RX/TX switched diversity

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
- "SIM-Lock" Provider Locking

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

DECT Specifications

- CAT-iq™ 2.0 ready (certification ongoing)
- Shared phonebook
- Centralized call log
- Up to 5 simultaneous handsets
- Works best with Technicolor TH68 handset

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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

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 and DECT
Handsets, including Common Numbers
SIP Back-to-Back user agent (optional)
Interoperable with main market softswitches
- FXO Fully 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 Identification Presentation)
CNIR (Calling Name Identification Restriction)
Fax transparency
3-way conference
MWI (Message Waiting Indicator)
Missed call e-mail
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
Distinctive Ringing
Voice Mail on No Reply
Support for Secondary Outbound Proxy
DNS NAPTR, DNS SRV



Technicolor TG797n v3 back panel

Content of the Box

- Wireless VoIP Residential Gateway
- ADSL cable (RJ-11)
- Ethernet cable (RJ-45)
- Power supply unit
- Setup CD and leaflet
- Filter or splitter (optional)
- DECT handset is sold separately

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-20100616-0001 v2.0
DS-142-v02-1104