TG670

Ultra Broadband Business Gateway

TELECOM

DATA

VOICE

VIDEO

Flexible Solution

The Technicolor TG670 is an Ultra BroadBand business gateway, designed for Corporate/SMEs and SOHOs and offers plenty of possibilities through a complete set of business features.

The Technicolor TG670 is a one-box office solution for communicating to the outside world, offering security to the office, allowing to share resources (like printer, hard disk), functioning as a PABX, while being able to be managed by the operator.

Features at a Glance

- Integrated VDSL2 modem (VDSL2/ADSL2+ auto-sensing)
- 1 Gigabit Ethernet WAN port
- 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)
- 1 FXO analogue port and 2 FXS ports for phone or fax
- 3G back-up WAN connection via USB adapter
- Media and content sharing
- UPnP A/V and DLNA
- 2 USB masters 2.0 for Hard Disk, printer...
- Remotely Manageable: TR-069, TR-104, TR-098, TR-111
- Integrated IPSec/VPN client and server, corporate firewall and content filtering.
- Extensive operator management capabilities (SNMPv3, TACACS+, Syslog)
- SOHO/SME PABX functionality (with integrated SIP server/ B2BUA)
- Non-Service-Affecting SW upgrades, through dual bank memory configuration

Business Internet Access

Our Technicolor TG670 Business gateway is the only physical equipment your customer needs in his office.

The embedded Stateful Packet Inspection Firewall (SPIF) and intrusion detection system stop attacks in the router and keep the customer save from any security violations. Site filtering and content filtering based on a large online database prevent employees from accessing unproductive categories of web sites. With the 3G back-up solution of the Technicolor TG670, your customers will always be online: whenever the DSL line is down, the router automatically redirects all traffic over the 3G connection. Advanced routing protocols like BGP support customers with multiple links to the Internet.

Sales people or other employees might have a Home Office or are regularly on the road, visiting customers and partners. Since the TG670 integrates both an IPSec/VPN client and server, you can guarantee access to all services and applications for your customer's mobile workforce.

Managed Office Networking

The Technicolor TG670 has a 4-port managed Ethernet switch allowing you to connect up to 4 PCs or servers, and features an integrated wireless access point.

With the Technicolor Gateway Setup Wizard, PCs and laptops can be easily and securely connected, allowing flexibility in the enterprise while providing security against outsiders.

You may propose your customer a managed WLAN solution. The Technicolor TG670 at any time shows all wireless devices and their status (connected, failed to authenticate, absent), allowing to quickly troubleshoot any problems.

Any port on the Managed Switch can be configured as DeMilitarized Zone (DMZ). This will allow your customer to share central services with its sales people or other employees at a minimum cost. Ports can also be configured as Guest access, allowing visitors in a meeting room to share the Internet access without compromising data confidentiality of the enterprise network.
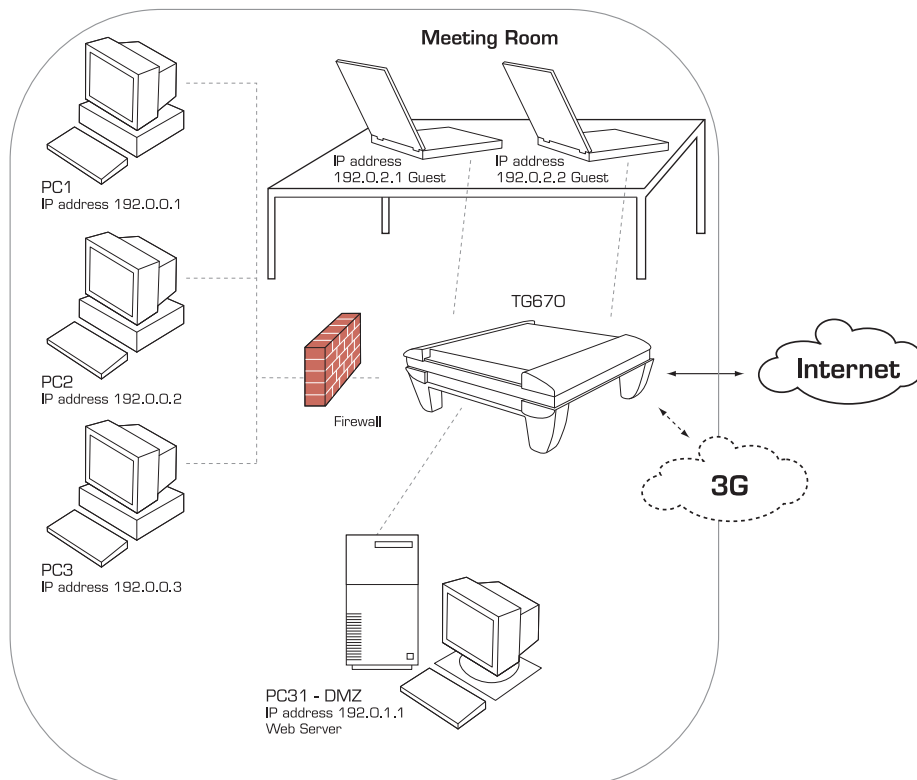
Voice over IP

The Technicolor TG670 offers two phone connectors to accommodate a phone and 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 rage of services like caller ID, CLIR, call waiting, call forwarding, 3-way conference and message waiting notification.

The Technicolor TG670 also integrates a Back-to-Back User Agent (B2BUA), supporting Business Class PABX functionalities, and is ready to operate in an IMS (IP Multimedia Subsystem) environment.

Network VPN

The Technicolor TG670 optimally supports network-based VPNs based on MPLS / IP and on VPLS / VLAN technology. In an MPLS based VPN, the BGP and RIP routing protocol allow to automatically distribute routes from the customer to the network. Existing LAN applications can continue to run over the MPLS VPN thanks to the built-in DHCP relay and IGMP proxy.

Whatever VPN type you roll out, the advanced forwarding engine can provide simultaneous access to multiple network based VPNs and Internet access on the same DSL line while keeping the traffic strictly separate between the different VPNs. The traffic over the VPN can be encrypted to provide the customer provable privacy and security. The embedded SLA monitoring tool continuously tracks key parameters like availability, delay, jitter, and packet loss and generates summary reports on a daily and monthly basis.

Customer Equipment VPN

Your customer is a growing Small or Medium Enterprise, having increasing needs of sharing information or applications among different operational sites. With the IPSec LAN-to-LAN interconnect features, there is no need anymore for expensive leased lines: a standard DSL connection and a Technicolor TG670 provides you a secure connection over the Internet between the different sites.

Site 1
Site 3
Internet
3G
Site 2
Site 4
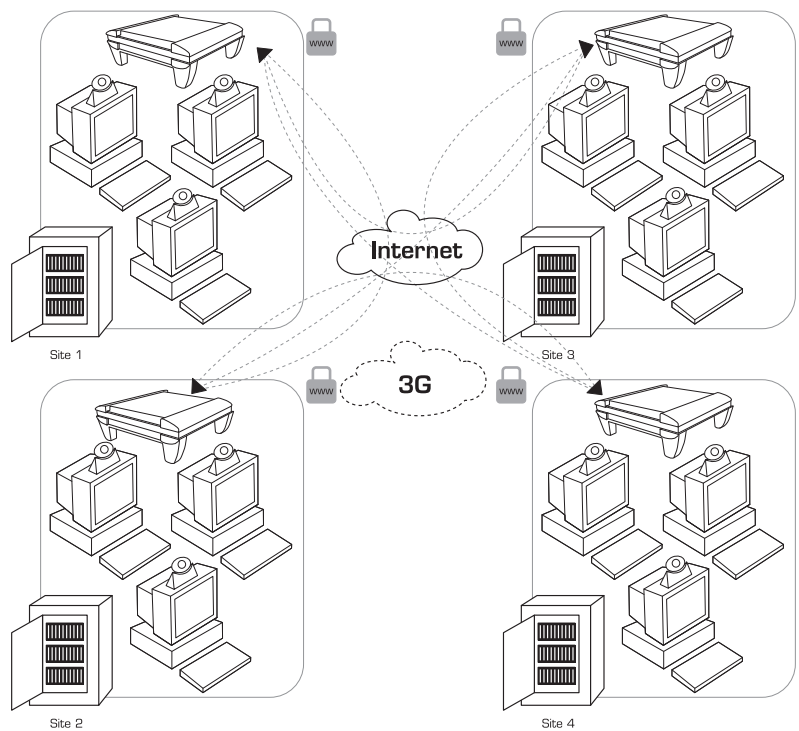
Technical Specifications

Hardware Specifications

■ Interfaces WAN	RJ11 DSL line port (ADSL2+, VDSL2) 1 Ethernet WAN 10/100/1000 Base-T port 1 Full FXO port
■ Interfaces LAN	4-port autosensing 10/100Base-T auto-MDI/ MDI-X Ethernet switch Wi-Fi IEEE 802.11b/g/n on board 2 FXS POTS interfaces 2 USB 2.0 hosts/masters
■ Extras	WPS button Reset button Console port Dual memory bank for TR-069 remote upgrade
■ Dimensions (h x d x w)	209 x 82 x 232 mm (8.2 x 3.2 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)

Firewall Security

■ Stateful Packet Inspection Firewall (SPIF)

■ Intrusion detection and prevention (against DoS, SYN Flood, Ping of Death, Fraggle, LAND, Teardrop, ...)

■ DMZ

■ IP and generic packet filtering, based on IP address/port number/ protocol type

■ Real-time attack alert and logging

Management

■ User Friendly GUI via HTTP and HTTPS

■ GUI-embedded Easy Setup wizard

■ On demand Remote GUI assistence (helpdesk)

■ Web-browsing Intercept (install / diagnostics)

■ PC (wireless) Technicolor Gateway Setup Wizard

■ TR-069 Remote Manageable

■ TR-104 Voice Provisioning

■ TR-098 Queue Management

■ TR-111 Home Network Device Management

■ TR-064 LAN Side Configuration

■ Zero-Touch Auto-Provisioning

■ SSL/SSH

■ SNMPv1, SNMPv2, SNMPv3

■ TFTP

■ TACACS+

■ Syslog (local, remote)

Services

■ Printer sharing

■ Content sharing	Samba + NTFS (optional) File Server UPnP™ Media Server DLNA® DMS Metadata support

■ Remote HDD file access

■ USB 3G adapter support

■ Website URL and Content-based filtering

■ Open architecture for 3rd party application development

■ ICSA grade security service

■ Micro-modularity with FLEXIBundLE

Wireless Performance and Security

■ Wi-Fi IEEE 802.11b/g/n access point

■ Wi-Fi CERTIFIED®

■ WPA™-Enterprise / WPA™-Personal / WPA2™-Personal , WEP™

■ Support radio server

■ Wi-Fi Multimedia (WMM®)

■ Wi-Fi Protected Setup (WPS™)

■ Dynamic rate switching for optimal wireless data rates up to 300 Mb/s

■ Manual/auto radio channel selection

■ Wireless Distribution System (WDS)

■ Up to 4 virtual SSID APs support

■ Security and service segregation per SSID

Enabling Technologies

■ Quality of Service: ATM, Ethernet, Wi-Fi, IP

■ FLEXIBundLE: Multi Role User Authorization

■ Hyper-Nat: Symmetrical NAT with Application Helpers

■ Game and Aplication 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

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IP Routing

- BGP
- OSPF
- RIP (RIPv1, RIPv2)

Voice over IP Features

Voice functionality	Signalling: SIP, MGCP (optional), H.323 (optional) Codecs: G.711, G.723, G.726, G.729, Wideband (G.722), T.38 Echo cancellation G.168, VAD, Silence Suppression, Jitter Buffer, CNG Flexible Telephone number per FXS, including Common Numbers Interop with main market softswitches
FXO	Dial map 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 waiting CLIP (Calling Line Identification Presentation) CLIR (Calling Line Identification Restriction) Fax transparency V.92 transparency 3-way conference MWI (Message Waiting Indicator) Missed call e-mail Click to dial Web-based phonebook Warm line Call Completion to Busy Subscriber Forced FXO Abbreviated number Internal calling Common number in/outgoing Call Integrated Back to Back User Agent

Content of the Box

- Ultra Broadband Business Gateway
- DSL cable (RJ11)
- Ethernet cable (RJ45)
- Power supply unit
- Setup CD (optional) and Leaflet
- Filter or splitter (optional)

Technicolor TG670 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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