

## TG670

Ultra BroadBand Business Gateway



On January 27<sup>th</sup> 2010, Thomson changed its company name to Technicolor. All product data sheets, including those for products which still carry the Thomson name, now reflect our new Technicolor brand.

### 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

- Universal Ultra Broadband business gateway (supporting as well ADSL2+, VDSL2+, Fiber networks via Gigabit Ethernet Uplink, 3G via USB dongle)
- Secure communication device, with integrated IPSec client (compatible with major VPN servers), corporate firewall and content filtering.
- Dynamic routing support, including RIP, BGP and OSPF
- 3G back-up
- Extensive operator management capabilities (SNMPv3, TACACS+, Syslog)
- Standard built-in access point based on 802.11n
- Easy install / use, embedded firewall, QoS, TR-69
- Direct connection of printer, hard disk, ... via USB port for office sharing
- SOHO/SME PABX functionality (with integrated SIP server/ Back to Back User Agent)
- Non-Service-Affecting SW upgrades, through dual bank memory configuration



# TG670

## Ultra BroadBand Business Gateway

The flexibility of the Technicolor TG670 allows a wide range of network deployment scenarios, including:

### Business Internet Access

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

The embedded stateful firewall and intrusion detection system stop attacks in the router and keep the customer safe from any security violations. Content filtering based on a large online database prevents employees from accessing unproductive categories of web sites. With the 3G back-up 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 client and server, you can guarantee access to all services and applications for your customer's mobile workforce.

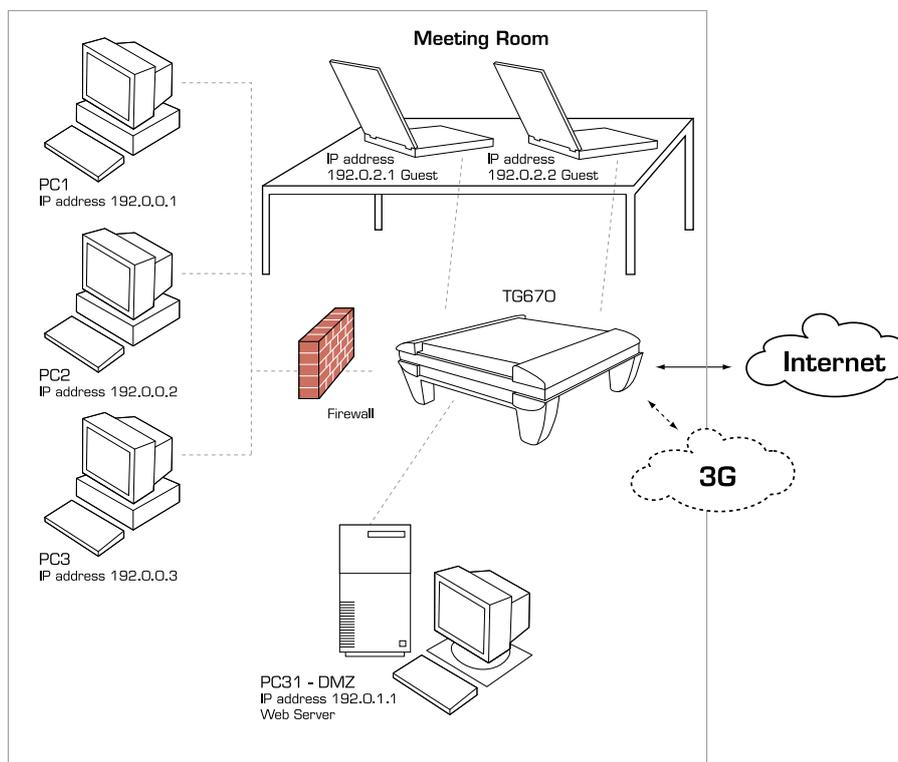
### Managed Office Networking

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 Wireless Install 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 Business gateway 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 DMZ (Demilitarized Zone). 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.



# TG670

## Ultra BroadBand Business Gateway

### 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 range of services like caller ID, CLIR, call waiting, call forwarding, 3-way conference and message waiting notification.

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

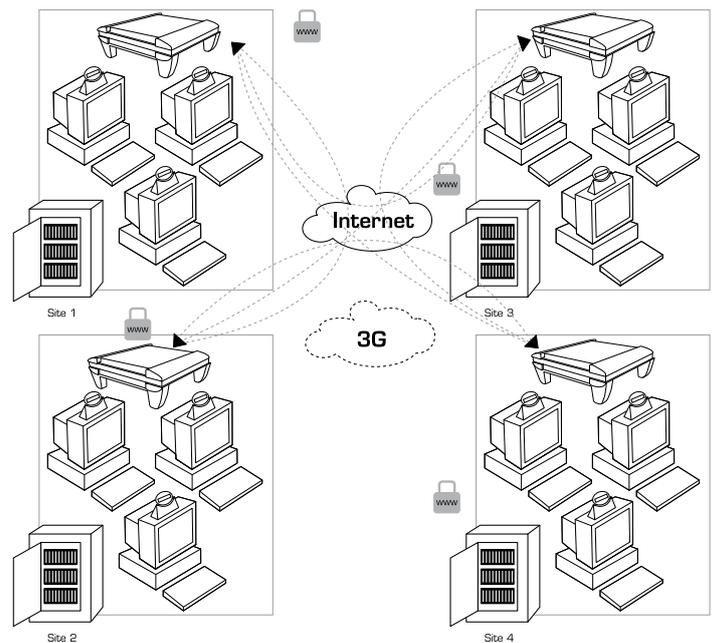
### Network VPN

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 with support of label policies allows to provide simultaneous access to multiple network based VPNs while keeping the traffic strictly separate between the different VPNs, and to simultaneously offer VPN access and Internet access on the same DSL line. 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. With the 3G USB dongle, your customers will always be online: when the DSL-line is down, the router automatically redirects all traffic over the 3G network.

### 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.



## Technical Specifications

### Hardware Specifications

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- Interfaces WAN RJ11 DSL line port (ADSL2+, VDSL2)  
GE uplink  
Full FXO
- Interfaces LAN 4-port autosensing 10/100Base-T auto-MDI/  
MDI-X Ethernet switch  
2 FXS POTS interfaces  
2 USB 2.0 hosts/masters  
Wi-Fi IEEE 802.11b/g/n on board
- Extras Restore factory defaults button  
WPS
- Dimensions (h x d x w) 20,9 x 8,2 x 23,2cm (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

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- 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 (G.dmt.bis), ITU-T G.992.4 Annex A, B (G.lite.bis) Maximum Rate: 12 Mbps for downstream and 1 Mbps for upstream
- ADSL2+ compliance: ITU-T G.992.5 Annex A, B Maximum Rate: 24 Mbps for downstream and 1 Mbps upstream
- VDSL2 compliance: up to 17 MHz profiles (POTS/ISDN)

### Firewall Security

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- Firewall with Stateful Packet Inspection
- Protection of Denial of Service (DoS) such as SYN Flood, Ping of Death, Fraggle, LAND, Teardrop, etc.
- Content filtering: URL blocking
- IP and generic packet filtering, based on IP address/port number/protocol type
- Real-time attack alert and logging

### Management

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- User Friendly GUI via HTTP and HTTPS
- (Wireless) Home Network Install Wizard
- Web based Easy installation (OS independent)
- On demand Remote Management

- TR-69 Remote Manageable
- TR-104 Voice Provisioning
- TR-98 Queue Management
- TR-111 Home Network Device Management
- SNMPv3
- TFTP
- TACACS+
- Syslog

### Services

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- Content filtering
- ICSA certified security services
- Micro-modularity with FLEXIBundle
- Home network management
- Remote access
- Printer sharing

### Wireless Performance and Security

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- Wi-Fi® CERTIFIED\* 802.11b/g/n access point- data rates up to 300 Mb/s
- Wi-Fi Multimedia - WMMTM (802.11i)
- Supports 802.1x/ PSK WPATM
- WPATM-Personal / WPA2TM-Personal (802.11i)
- Supports wireless repeater function to extend the coverage area
- Dynamic rate switching for optimal wireless data rates up to 300 Mb/s
- Manual/auto radio channel selection
- Wireless Distribution System (WDS)
- 64/128bit WEP encryption
- Wireless client MAC or hardware address-based access control (with physical registration button)

### Enabling Technologies

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- QoS: ATM, Ethernet, Wi-Fi, IP
- FLEXIBundle
- Hyper-Nat
- SIM-lock
- Virtual bridges - portmapping
- Flexiport
- Smart DHCP, DNS
- UPnP

### IP Routing

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- BGP
- OSPF
- RIP

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Ultra BroadBand Business Gateway



## Technical Specifications

### Voice over IP Features

#### VOICE FUNCTIONALITY

- Signalling: SIP, MGCP, H.323(O)
- 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 & 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 and Leaflet
- Filter or splitter (optional)



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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