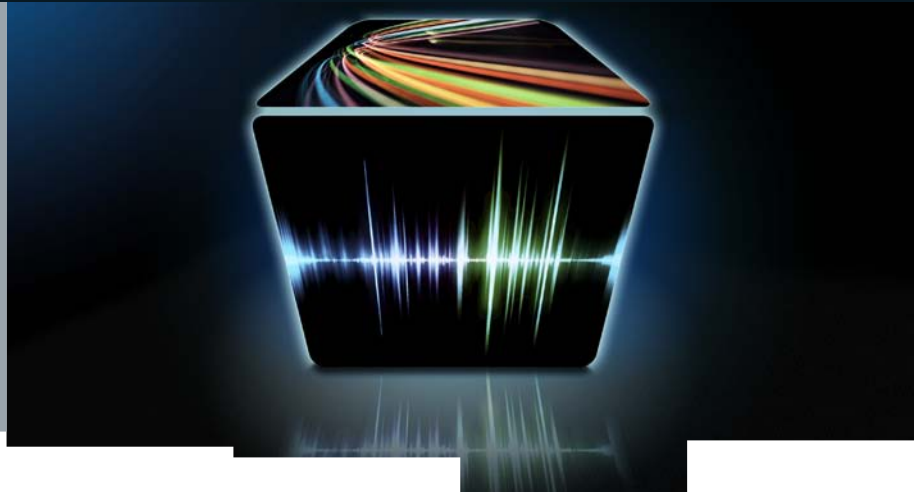


# THG571

DOCSIS/EuroDOCSIS 3.0  
VoIP Cable Modem



## CABLE

DATA

VOICE

*On January 27th 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.*

## Wideband Voice Solution

With the evolution of cable standards, DOCSIS/EuroDOCSIS 3.0 will be decisive for cable operators wishing to provide high-bandwidth data delivery and stay ahead in game and video over IP delivery. Thanks to this second generation of high speed data services solutions, Technicolor keeps up to 8 bonded downstream channels and 4 bonded upstream channels, with a backward-compatible design for use as a single-channel with DOCSIS/EuroDOCSIS 2.0 and older networks without any service interruption.

## Easy to Use, Easy to Install

Like all Technicolor modems and gateways, the THG571 with GE port is an easy to use, easy to install modem. For the end user's convenience, the easy-to-access multi-colored LEDs provide a clear indication of start-up sequence, connectivity status and channel bonding status (number of used downstream and upstream channels). Multiple integrated web pages allow direct access to the status and settings, including privacy and security information.

## Features at a Glance

- EuroDOCSIS® 3.0 certified
- Backward compatible with DOCSIS® 2.0 (and older)
- 96 MHz integrated tuner
- 1 Gigabit Ethernet (GE) LAN port
- Voice EuroPacketCable™ 1.5 certified
- Upgradeable to EuroPacketCable™ 2.0
- Voice CLASS features
- MPEG2 over IP encapsulation solution
- IPv4 and IPv6 support
- Advanced power control
- BPI+ communications privacy to support secure data exchange between modems & cable operators' servers



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## Voice Performance

The THG571 is EuroPacketCable 1.5 certified and upgradeable to basic EuroPacketCable 2.0. It is also equipped with basic and extended CLASS features (caller ID, call waiting...).

## ECO

Technicolor offers its customers environmentally-friendly products. Next to carefully selected plastics and packaging to minimize the ecological footprint, the THG571 benefits from a unique combination of hardware and software features that reduce power consumption substantially. For instance, an integrated tuner provides advanced power management.

## Professional Services

Technicolor offers a wide array of services:

- Hardware: Optimize warranty and hardware operations such as logistics, 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.
- Technicolor proposes Integration Services on technologies and products 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 guaranteeing state-of-the-art yet cost-effective designs, easy to use and install.

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## Technical Specifications

### Cable Certifications / Standards

- Data EuroDOCSIS® 3.0 certified  
Dual mode DOCSIS/EuroDOCSIS
- Voice EuroPacketCable™ 1.5 certified  
Upgradeable to EuroPacketCable™ 2.0
- CMTS interoperability Any qualified EuroDOCSIS and DOCSIS CMTS

### Hardware Specifications

- Interfaces WAN 1 RF connector F-Type
- Interfaces LAN 1 port auto-MDI/MDI-X 10/100/1000 Base-T (RJ-45)
- Interfaces other Reset button  
Power button  
2 FXS POTS ports (RJ-11)
- Dimensions 170 x 165 x 35 mm (6.7 x 6.5 x 1.4 in.)
- Power supply 220 - 230 VAC, 50 - 60 MHz
- Operating temperature 0° to 40° C (32° - 104° F)
- Operating humidity 20 % to 90 % non-condensing
- Storage temperature -20° to 70° C (-4° - 158° F)
- Regulatory CE and CB

### Receiver Specifications

- Downstream modulation QAM 64/256
- Downstream frequency range 88-1002 MHz
- Maximum downstream data range 440 Mbps (theoretical)  
(55.61 Mbps x 8 channels)
- Capture windows 96 MHz capture window with integrated tuner
- Number of downstream channels Up to 8
- Input signal level range -17 dBmV ~ +13 dBmV (64 QAM)  
-13 dBmV ~ +17 dBmV (256 QAM)
- Input impedance 75 Ohm

### Transmitter Specifications

- Upstream modulation QPSK and 8, 16, 32, 64 and 128 QAM
- Upstream frequency range 5 - 65 MHz
- Maximum upstream data range 131 Mbps (theoretical)  
(32.78 Mbps x 4 channels)
- Number of upstream channels 4
- Channel bandwidth 200, 400 and 800 kHz, 1.6, 3.2 and 6.4 MHz
- Output signal level range A-TDMA:  
+68 to +118 dB<sub>μ</sub>V @ QPSK  
+68 to +115 dB<sub>μ</sub>V @ QAM 8/16  
+68 to +114 dB<sub>μ</sub>V @ QAM 32/64  
S-CDMA:  
+68 to +113 dB<sub>μ</sub>V /All  
Output impedance  
75 Ohm

### Management

- User Friendly GUI via HTTP
- Web-based user interface management and administration
- Logging and alert

### Security

- Stateful Packet Inspection Firewall (SPIF)

### Networking

- Network protocol IP, TCP, UDP, ARP, ICMP, DHCP, TFTP, SNMP, HTTP
- Protocol filtering Ethernet and IP
- SNMP management V2, V3
- Full IPv4 and IPv6 support

### Software Specifications

- Full IPv4 and IPv6 support
- Software downloadable
- Multiple client support 254
- Class of Services (CoS) 16 SIDs
- Security BPI+
- HTTP server (CM status)

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## Technical Specifications

### Telephony Specifications

- Audio codecs      PCM A-law, PCM  $\mu$ -law, G.729, G.729a, G.729e, G.728, iLBC and BV16
- Multi-line phone support
  - 2 phone lines
  - 3-party conference calls
  - Can support two complex voice codecs simultaneously
- Fax relay            T.38
- DTMF tone relay    RFC2833
- Caller ID            Type I and Type II
- CLASS features    Basic and extended CLASS features
- Voice Activity Detection (VAD)
- Comfort Noise Generation (CNG)
- Echo cancellation    G.65 / G.168 up to 16 ms
- Packet tone         DTMF generation / Call Progress Generation / Custom Tone Generation
- Call discrimination    Fax and modem detection
- Telephony interface capabilities
  - Loopback and on-demand diagnostics
- Modems             Up to V.90 (38.5 kbps)
- RFC2833 DMTF tone relay
  - Enabled/disabled via SNMP or configuration file
- REN                 5 REN
- Pulse dialing        DTMF/pulse tones and pulse/DTMF tones conversion
- RTP layer            RFC1889 / RFC1890
- RTCP statistics collection
- PacketCable protocols    EuroPacketCable™ NCS Network-Based Call Signalling Protocol (PKT-SP-EC-MGCP) SIP protocol by software upgrade
- SIP based protocols

### Content of the Box

- VoIP cable modem
- Power supply unit
- Ethernet cable (RJ-45)
- CD-ROM
- Quick Installation Guide

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