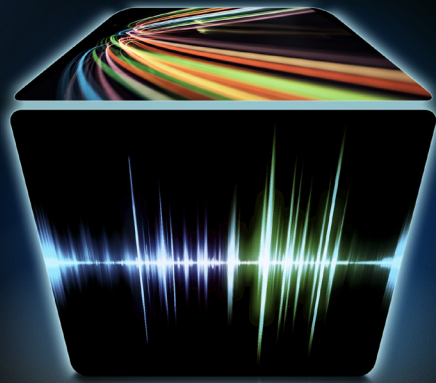# technicolor

THG570

DOCSIS/EuroDOCSIS 3.0 VoIP Cable Modem

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.

CABLE

DATA

VOICE

With the evolution of cable standards, DOCSIS/EuroDOCSIS 3.0 will prove decisive for cable operators wishing to provide high bandwidth data delivery and to stay ahead of the content with game and video over IP delivery. With this new generation of High Speed Data Services Solution, Technicolor introduces up to eight (8) bonded downstream channels and four (4) bonded upstream channels, with a design backward-compatible for use as a single-channel with DOCSIS/EuroDOCSIS 2.0 and older networks without any service interruption. Thanks to the integrated dual split tuner solution, the operator will benefit from flexibility in channel allocation: to ease the management when the channel frequency plan is loaded or to separate data from other services such as video over IP.

The new THG570 comes in the sleek attractive design Technicolor has adopted as the new «family look».

Easy to Use, Easy to Install

As all Technicolor gateways, the GEthernet port THG570 is an easy to use, easy to install gateway.

For convenience of the end user, the easy-to-access LEDs provide a clear indication of start-up sequence and connectivity status.

Multiple integrated Web pages allow direct access to the status and settings, including privacy and security information.

Voice Performance

- EuroPacketCable 1.5 certified
- Upgradeable to basic EuroPacketCable 2.0
- CLASS features (Caller ID, call waiting...)

Features at a Glance

- EuroDOCSIS 3.0 and EuroPacketCable 1.5 certified
- Dual mode modem: DOCSIS/EuroDOCSIS 3.0
- Upgradeable to EuroPacketCable 2.0
- 64 MHz dual tuner fully compliant with DOCSIS
- 1 GEthernet port
- MPEG2 over IP Encapsulation solution
- Supports CLASS features
- Reliable high-performance platform
- Advanced power management and power control
- Powerful processor and architecture
- Supports IPv4 and IPv6
- BPI+ communications privacy to support secure data exchange between modems & cable operator's servers

EXCENTIS

Cable Europe Labs

THG570
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VoIP Cable Modem

Ecological Design

Technicolor, as front-runner in ecological design, offers in the THG570 advanced features to reduce power consumption. It is designed with advanced power management to better control power consumption, thanks to the integrated tuner. The Gateway even supports a lower power mode thanks to a split tuner solution, an integrated upstream power amp and the auto power down feature on the external GEthernet interfaces. Additional power control features are supported with the ability to turn off any or all modules, to slow down or turn off processors and to turn off all external interfaces, reducing the power consumption even more.

Advanced Diagnostics

- Web pages to facilitate installation and troubleshooting
- Easy configuration and set-up
- Remote access via Telnet, SNMP, Web Page
- Post-installation easily managed with SNMP

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Technical Specifications

Standards / Certifications

■	Data	EuroDOCSIS 3.0 certified
■	Voice	EuroPacketCable 1.5 certified Upgradeable to EuroPacketCable 2.0
■	CMTS Interoperability	Any qualified EuroDOCSIS and DOCSIS(*) CMTS

Receiver

■	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	64 MHz capture window split into two windows of 32 MHz thanks to the integrated dual tuner solution
■	Number of Downstreams	up to 8
■	Input Signal Level Range	-17dBmV ~ +13dBmV (64QAM) -13dBmV ~ +17dBmV (256QAM)
■	Input Impedance	75 Ohm

Transmitter

■	Upstream Modulation	QPSK and 8, 16, 32, 64 and 128 QAM
■	Number of Upstreams	4
■	Upstream Frequency Range	5-65 MHz
■	Maximum Upstream Data Range	131 Mbps (theoretical) (32.78 Mbps x 4 channels)
■	Channel Bandwidth	200, 400 and 800kHz, 1.6, 3.2 and 6.4 MHz
■	Output Impedance	75 Ohm

Telephony Features

■	Audio Codecs	PCM A-law, PCM μ-law, G.729, G.729a, G.729e, G.728, iLBC and BV16
■	Multi-line Phone Support	Yes, two 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)	yes
■	Comfort Noise Generation (CNG)	yes
■	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	Loop-back and on demand diagnostics
■	Modems	Up to V.90 (38.5 kbps)
■	RFC2833 DMTF Tone Relay	Enabled / disabled via SNMP and Telnet
■	REN	5 REN
■	Pulse Dialing	DTMF-tones to pulse tones conversion and pulse to DTMF tones conversion
■	RTP Layer	RFC1889 / RFC1890
■	RTCP Statistics Collection	yes
■	PacketCable Protocols	PacketCable NCS Network-Based Call Signalling Protocol (PKT-SP-EC-MGCP), supports SIP protocol by software upgrade
■	SIP Based Protocols	yes

(*) Using the Euro-DOCSIS frequency bandwidth with a DOCSIS CMTS

THG570
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Technical Specifications

PC Compatible

■	Operating Systems	Windows 2000, XP and Vista
■	Ethernet Port	10/100/1000 Base-T
■	Drive	CD-ROM

Software Features

■	Software Downloadable	yes
■	Multiple Client Support	254
■	Class of Services (CoS)	16 SIDs
■	Protocol Filtering	Ethernet & IP
■	SNMP Management	V2, V3
■	Security	BPI+
■	HTTP Server (CM status)	yes

Interfaces / Physical

■	Giga Ethernet	1 x RJ45 10/100/1000 Base-T auto detect
■	Telephone Line	2 x RJ11
■	RF Connector	1 x F-Type
■	Buttons	Reset, on/off
■	LEDs	Power, DS, US, Online, Link, Tel1, Tel2
■	Power Supply	External, 230VAC 50Hz
■	Operating Temperature	0° to 40°C
■	Operating Humidity	20% to 90% non-condensing
■	Storage Temperature	-20° to 70°C
■	Safety	CE and CB

Packaging Information

■	Cabinet Dimensions	mm: 170 (L) x 165 (D) x 38 (H)
■	Cabinet Weight	Approx. 0,369 kg
■	Packaging Dimensions	mm: 255 (L) x 189 (D) x 90 (H)
■	Shipping Weight	Approx. 0,77 kg
■	Master-pack Dimensions	mm: 546 (L) x 390 (D) x 283 (H)
■	Master-pack Shipping Weight	Approx. 10,34 kg
■	Master-pack Quantity	12 units

Content of the Box

- ■ VoIP Cable Modem
- ■ Power supply
- ■ Ethernet Cable
- ■ CD-ROM
- ■ Quick Installation Guide

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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