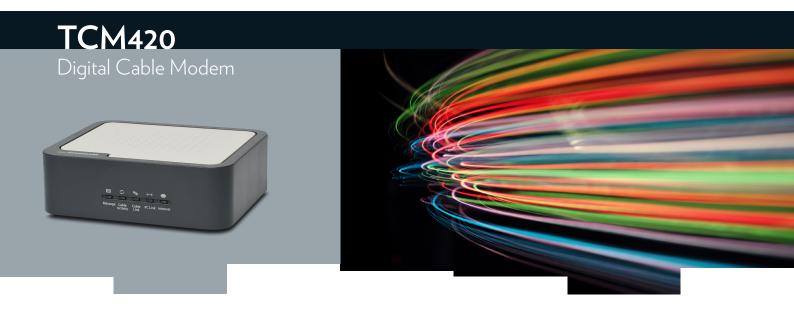# technicolor

TCM420
Digital 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

Technicolor's DOCSIS/Euro-DOCSIS2.0 cable modem, the TCM420 provides a competitive offer to cable operators with a compact and an easy-setup solution for consumers. This product benefits from an improved receiving performance by the use of a world class tuner.

Technicolor's robust case design is consistent throughout its product line of cable modems and gateways.

Easy to Use, Easy to Install

As all Technicolor gateways, the TCM420 with Ethernet and USB port 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.

Bridging

Allows simultaneous connections of two PCs, enables Ethernet and USB port data traffic bridging.

Advanced Diagnostics

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

Features at a Glance

- EuroDOCSIS 2.0 certified
- Dual mode modem: DOCSIS/EuroDOCSIS 2.0
- Propane™ technology, enabling the connection of more Internet users without additional network bandwidth
- Ethernet and USB 1.1 ports for wired connectivity and easy installation
- Reliable high-performance platform
- IPv6 ready
- BPI+ communications privacy to support secure data
- exchange between modems & cable operator's servers

EXCENTIS

Cable Europe Labs

Technical Specifications

Standards / Certifications

■ Data	EuroDOCSIS 2.0 certified
■ CMTS Interoperability	Any qualified Euro-DOCSIS and DOCSIS CMTS
■ WHQL-certified USB driver	yes

Receiver

■ Downstream Modulation	QAM 64/256
■ Downstream Frequency Range	108-862 MHz
■ Maximum Downstream Data Range	41.71/55.61 Mbps
■ Input Signal Level Range	+43 to +73 dBµV (QAM 64)
	+47 to +77 dBµV (QAM 256)
■ BER	<1x10-8 @ C/N>25,5dB, QAM 64 with FEC
	<1x10-8 @ C/N>34,5dB, QAM 256 with FEC, received power = +47 to +54 dBµV
	<1x10-8 @ C/N>31,5dB, QAM 256 with FEC, received power = +54 to +77 dBµV
■ Input Impedance	75 Ohm

Transmitter

■ Upstream Modulation	QPSK and 16 QAM
■ Additional Upstream Modulation Types	QAM 8/32/64 for A-TDMA and QAM 128 for S-CDMA channels
■ Upstream Frequency Range	5-65 MHz
■ Maximum Upstream Data Range	Max 5.12/10.24 Mbps {QPSK/QAM 16}, Max 30.720 Mb/s (QAM 64)
■ Output Signal Level Range	A-TDMA:
	+68 to +118 dBµV @ QPSK
	+68 to +115 dBµV @ QAM 8/16
	+68 to +114 dBµV @ QAM 32/64
	S-CDMA:
	+68 to +113 dBµV /All
■ Output Impedance	75 Ohm
■ Channel Bandwidth	Programmable (200*N KHz) N=1, 2, 4, 8, 16, 32
■ Automatic Level Adjust	yes
■ Gain Control Range	50dB
■ Frequency Stability	± 5 kHz

PC Compatible

■ Ethernet Port	10/100 Base-T
■ USB port	With Windows 98SE/ME/2000/XP/Vista
■ Drive	CD-ROM

TCM420
Digital Cable Modem

Technical Specifications

Software Features

■ Software Downloadable	yes
■ Bridging	Between USB and Ethernet
■ Multiple Client Support	32
■ Class of Services (CoS)	16 SIDs
■ Protocol Filtering	Ethernet & IP
■ SNMP Management	V2, V3
■ Security	BPI+
■ Privacy	Through encryption between gateway and PC
■ HTTP Server (CM status)	yes

Interfaces / Physical

■ Ethernet	1 x RJ45 10/100 Base-T auto detect
■ RF Connector	1 x F-Type
■ USB Port device	1x USB 1.1
■ Button	Reset
■ LEDs	Message, Cable Activity, Cable Link, PC Link, Internet
■ 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: 126 (L) x 110 (D) x 42 (H)
■ Packaging Dimensions	mm: 255 (L) x 170 (D) x 85 (H)
■ Shipping Weight	Approx. 1,1 kg
■ Master-pack Dimensions	mm: 780 (L) x 350 (D) x 258 (H)
■ Master-pack Shipping Weight	Approx. 10 kg
■ Master-pack Quantity	18 units

Content of the Box

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

technicolor