

TCM471

DOCSIS/EuroDOCSIS 3.0
Cable Modem



CABLE

DATA

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.

Powerful Wideband 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. With this second generation of high speed data services solution, Technicolor provides up to 8 bonded downstream channels and 4 bonded upstream channels, with a backward-compatible design for use as a single-channel with older networks without any service interruption.

Features at a Glance

- EuroDOCSIS® 3.0 certified dual mode modem: DOCSIS/EuroDOCSIS® 3.0
- Backward compatible with EuroDocsis® 2.0 (and older)
- 96 MHz integrated tuner
- 1 Gigabit Ethernet (GE) LAN port
- MPEG2 over IP Encapsulation solution
- IPv4 and IPv6 support
- BPI+ communications privacy to support secure data exchange between modems & cable operators' servers



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Easy to Use, Easy to Install

Like all Technicolor gateways, the TCM471 with GE port is an easy to use, easy to install gateway. For the end user's convenience, the user friendly LEDs provide a clear indication of the start-up sequence and connectivity status. Multiple integrated web pages allow direct access to the status and settings, including privacy and security information.

ECO

Technicolor offers its customers environmentally-friendly products. Next to carefully selected plastics and packaging to minimize the ecological footprint, the TCM471 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
- CMTS interoperability Any qualified EuroDOCSIS® and DOCSIS®
CMTS

A-TDMA:

- +68 to +118 dB μ V @ QPSK
- +68 to +115 dB μ V @ QAM 8/16
- +68 to +114 dB μ V @ QAM 32/64

S-CDMA: +68 to +113 dB μ V /All

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
- Dimensions 30 x 150 x 150 mm (1.18 x 5.9 x 5.9 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 downstreams 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
- 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 800 kHz, 1.6, 3.2 and 6.4 MHz
- Output impedance 75 Ohm
- Output Signal Level Range

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 32
- Class of Services (CoS) 16 SIDs
- Security BPI+
- HTTP server (CM status)

Content of the Box

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

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