

TCM470

Dual mode DOCSIS/EuroDOCSIS 3.0 cable modem



Data Voice Video

CABLE

SATELLITE

TELECOM

TERRESTRIAL

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, Thomson 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 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 TCM470 comes in a sleek attractive new case design which becomes Thomson's now «family look» going forward.

Key Characteristics

- offering high bandwidth with advance multimedia services, new IPTV alternatives.
- Euro-DOCSIS 3.0.
- Dual-Mode cable modem: DOCSIS and Euro-DOCSIS.
- 64MHz dual tuner fully compliant with DOCSIS 3.0 Split tuner with two 32MHz capture windows.
- A powerful processor and architecture.
- MPEG2 over IP Encapsulation solution allowing the support of IPTV with existing QAM (digital video) broadcast infrastructure. Thanks to the eight (8) channel solution, it is possible to allocate 4 channels for data and 4 channels for dedicated IPTV.
- Power control features with ability to turn off any or all modules, to slow down or turn off processors and to turn off all external interfaces.

- Advanced power management with Silicon integration providing better control of power consumption thanks to the integrated tuner, a better control of power consumption with Integrated upstream power amp, and the ability to turn off external GigE interfaces thanks to the integrated GigE.
- Giga Ethernet port for wired connectivity and easy installation.
- Easy-to-access LEDs provide a clear indication of start-up sequence and connectivity status.
- Multiple integrated Web pages allowing direct access to the status and settings, including privacy and security information.
- Reliable high-performance platform.
- Supports IPv4 and IPv6.
- BPI+ communications privacy to support secure data exchange between modems and cable operators' servers.

Technical specifications

Standards/Certifications

Data	Euro-DOCSIS 3.0 full compliant
CMTS Interoperability	Any qualified Euro-DOCSIS and DOCSIS (*) CMTS

Receiver

Downstream Modulation	QAM 64/256
Downstream Frequency Range	108-1000MHz
Maximum Downstream Data Rate	440 Mbps (Theoretical) (55.61Mbps 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	-15dBmV ~ + 15dBmV (TBC)
Input Impedance	75 Ohms

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 Rate	131 Mbps (Theoretical) (32.78Mbps x 4 channels)
Output Impedance	75 Ohms
Channel Bandwidth	200kHz, 400kHz, 800kHz, 1.6MHz, 3.2MHz and 6.4MHz

PC Compatible

Operating Systems	Windows XP, 2000, Vista
Ethernet port	10/100/1000 BT
Drive	CD-ROM

Software Features

Software Downloadable	Yes
Multiple Client Support	32
Class-Of-Services (COS)	16 SID's
Protocol Filtering	Ethernet & IP
SNMP Management	V2, V3
Security	BPI+
HTTP Server (CM status)	Yes
Local configuration	yes
Through HTTP server	yes

Interfaces & Physical

Giga Ethernet	1 x RJ45 - 10/100/1000 Base-T auto-detect
RF Connector	1 x F-Type
Buttons	1: reset
LEDs	5: Power, DS, US, Online, Link
Power supply	External, 230VAC 50Hz
Operating Temperature	0°C to 40°C
Operating Humidity	20% to 90 % non condensing
Storage Temperature	-20°C to 70°C
Safety	CE and CB

Packaging & Content

Cable	Ethernet
CD-ROM	Yes
Quick Installation Guide	Yes, English language

Professional services

Thomson Professional Services are available to address Cable TV operators' demand for highly qualified technical support & warranty, continuous product maintenance, access to training courses and tailor-made solutions to specific evolution. For more information, please ask your point of contact.

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

For more information

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