

TCM420 Digital Cable Modem



EXCENTIS

CABLE

SATELLITE

TELECOM

TERRESTRIAL

Data // Voice // Video

Thomson's 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.

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

| Key Characteristics

- Euro-DOCSIS 2.0 certified.
- Dual-Mode cable modem: DOCSIS and Euro-DOCSIS.
- 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.
- 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.
- IPv6 ready

| Bridging

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

| Security

BPI+ communications privacy to support secure data exchange between modems and cable operators' servers.

Technical specifications

Standards/Certifications

Euro-DOCSIS 2.0 certified	Yes
CMTS Interoperability	Any qualified Euro-DOCSIS and DOCSIS (*)
WHQL-certified USB driver	Yes

Receiver

Downstream Modulation	QAM 64/256
Downstream Frequency Range	108-862 MHz
Maximum Downstream Data Rate	41,71/55,61 Mbps (QAM 64 / QAM 256)
Input Signal Level Range	+43 to +73 dB μ V (QAM 64) +47 to +77 dB μ V (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 dB μ V <1x10 ⁻⁸ @ C/N>31,5dB, QAM 256 with FEC, received power = +54 to +77 dB μ V
Input Impedance	75 Ohms

Transmitter

Upstream Modulation	QPSK, QAM 16
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 Rate	Max 5.12/10.24 Mbps {QPSK/QAM 16}, Max 30.720 Mb/s (QAM 64)
Output Signal Level Range	A-TDMA: +68 to +115 dB μ V @ QPSK +68 to +118 dB μ V @ QAM 8/16 +68 to +114 dB μ V @ QAM 32/64 S-CDMA: +68 to +113 dB μ V /All
Output Impedance	75 Ohms
Channel Bandwidth	Programmable (200*N KHz) N=1, 2, 4, 8, 16, 32
Automatic Level Adjust	Yes
Gain Control Range	50dB
Frequency Stability	\pm 5 kHz

PC Compatible

CPU	486DX 66MHz (Pentium Preferred)
Memory	RAM 16MB (32MB Preferred)
Operating Systems	Windows XP, Me, 2000, Vista
Available Disk Space	76 MB
Sound Card	16-Bit
Video	VGA (SVGA Preferred)
Ethernet port	10 or 100 Base-T
USB port	With Windows 98SE/ME/2000/XP/Vista
Drive	CD-ROM

Software Features

Software Downloadable	Yes
Bridging	Between USB and Ethernet
Multiple Client Support	32
Class-Of-Services {COS}	16 SID's
Protocol Filtering	Ethernet & IP
SNMP Management	V2, V3
Security	BPI+
Privacy	Through encryption between the gateway and the PC
HTTP Server (CM status)	Yes

Interfaces & Physical

Ethernet 10Base-T or 100Base-T	1x RJ45 – auto-detect
RF Connector	1x F-Type
USB Port device	1x USB 1.1
Buttons	2: Internet On/Off, reset
LEDs	5: Message, Cable Activity, Cable Link, PC Link, Internet
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

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
Cable	Ethernet
CD-ROM	Yes
Quick Installation Guide	Yes

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

For more information

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