

TCW750-4 4-Ethernet-Port Wireless Cable Gateway



CABLE

SATELLITE

TELECOM

TERRESTRIAL

Data Voice Video

Thomson DOCSIS/Euro-DOCSIS™ 2.0 TCW750-4 features 802.11b/g wireless connection with an excellent broadcast range thanks to the use of an external antenna. With the addition of advanced firewall, router, four (4) Ethernet connections and optional local configuration settings, this gateway is the ideal and simple networking solution for the residential and SOHO environments and benefits from improved RF performances thanks to a world-class tuner. Ready for fixed mobile convergence, the TCW750-4 includes the latest protection for wireless protocols: WPA (WiFi Protected Access) and WEP (Wired Equivalent Privacy).

The TCW750-4 comes in a sleek attractive new case design which becomes Thomson's now «family look» going forward.

Key Characteristics

- Euro-DOCSIS 2.0 compliant.
- Dual-Mode cable modem: DOCSIS and Euro-DOCSIS.
- Propane™ technology, enabling the connection of more Internet users without additional network bandwidth.
- 802.11b/g wireless connection supporting 254 PCs maximum at speed up to 54Mb/s.
- 4x Ethernet 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.

Security

- Security through a built-in stateful packet inspection firewall providing protection against Internet hackers and Denial of Service attacks.
- BPI+ communications privacy to support secure data exchange between modems and cable operators' servers.
- WPA, WPA2 and WEP support: data encryption between the gateway and the wireless connected computer.
- Wireless access control mechanism to prevent unauthorized wireless users.
- VPN's with IPSec.

Ready for fixed mobile convergence solution

- Traffic prioritization with Wi-Fi Multimedia (WMM) based on the IEEE 802.11e.
- Multiple SSID mode management with possibility to create up to 4 virtual standalone Access Points. Default configuration with 2 secured access points.
- VLAN management.

Technical specifications

Standards/Certifications

Data	Euro-DOCSIS 2.0 compliant
CMTS Interoperability	Any qualified Euro-DOCSIS and DOCSIS (*) CMTS

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 +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
Output Impedance	75 Ohms
Channel Bandwidth	Programmable (200*N KHz) N=1, 2, 4, 8, 16, 32 200KHz, 400KHz, 800KHz, 1.6MHz, 3.2MHz, 6.4MHz
Automatic Level Adjust	Yes
Gain Control Range	50dB
Frequency Stability	\pm 5 kHz

Wireless Features

Protocol	Fully 802.11b/g Compatible
Antenna	One external antenna
Throughput	Up to 54 Mbps Data Rate
Wireless security	64/128 bit WEP Encryption, WPA, WPA2, Support Temporal Key Integrity Protocol (TKIP), IEEE 802.1x Port-Based Authentication with RADIUS client
WPS	Yes

Gateway Features

Network Protocol	IP, TCP, UDP, ARP, ICMP, DHCP, FTP, TFTP, SNMP, HTTP
Firewall	IP Filtering, Stateful Packet Inspection (SPI), Intrusion Detection for Denial of Service (DoS) attacks, Flexible Parental Control, URL Content Filtering
Firewall control	Web-Based User Interface Management and Administration, Remote User Access, Logging & Alert

PC Compatible

Operating Systems	With Windows 2000/XP/Vista
Ethernet port	10 or 100 Base-T
Drive	CD-ROM

Software Features

Software Downloadable	Yes
Multiple Client Support	254
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

Interfaces & Physical

Wireless	802.11 b/g connection at up to 54Mb/s
Ethernet 10Base-T or 100Base-T	4x RJ45 – auto-detect
RF Connector	1x F-Type
Buttons	1:reset
LEDs	9 : Eth1-4, WLAN, Power, DS, US, Online
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

Packaging & Content

Cabinet Dimensions	mm: 210 (L) x 160 (D) x 40 (H)
Packaging Dimensions	mm: 263 (L) x 197 (D) x 98 (H)
Shipping Weight	Approx. 1,4 kg
Master-pack Dimensions	mm: 515 (L) x 540 (D) x 220 (H)
Master-pack Shipping Weight	Approx. 16,5 kg
Master-pack Quantity	12 units
Cable	Ethernet
CD-ROM	Yes
Quick Installation Guide	Yes, English language

Professional services

Thomson Professional Services are available to address cable 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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