

TCW750-4

4 Ethernet-Ports Wireless Cable Gateway

| Advanced in Security

To ensure end users and operators with the fullest possible secure solution, THOMSON built in several security mechanisms.

The integrated firewall guarantees users ultimate network security. It minimizes undesired service impact and provides stateful inspection of packets. An integrated Denial of Service (DoS) engine monitors a wide range of attack patterns, and logs potential security breaches to a local cache or remote server.

The TCW750-4 also supports powerful wireless security mechanisms, such as Wi-Fi Protected Access (WPA, WPA2), Wired Equivalent Privacy (WEP) encryption. This allows users to communicate and access data with efficient link quality and the highest level of network security.

On top of that a wireless access control mechanism is built in to prevent unauthorized wireless users from accessing.

To secure data exchange between the gateways and the cable operators' servers, BPI+ communications privacy is used.

| Easy to Use, Easy to Install

As all Thomson gateways, the 4-port Ethernet TCW750-4 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.

Technical Specifications

Standards / Certifications

- Data Euro-DOCSIS 2.0 full 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 Range 41,71/55,61 Mbps (QAM 64 / QAM 256)
- 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=33dB, 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
- Channel Bandwidth Programmable (200*N KHz) N=1, 2, 4, 8, 16, 32
200KHz, 400KHz, 800KHz, 1.6MHz, 3.2MHz, 6.4MHz
- Output Impedance 75 Ohm
- Automatic Level Adjust yes
- Gain Control Range 50dB
- Frequency Stability ± 5 kHz

Wireless Features

- Protocol Fully 802.11b/g compatible
- Antenna One external antenna
- Throughput Up to 54Mbps data rate
- Wireless Security 64/128 bit WEP encryption, WPA, WPA2
support of Temporal Key integrity Protocol (TKIP),
IEEE802.1x Port-Based Authentication with RADIUS
client
- WPS Yes

Gateway Features

- Network Protocol IP, TCP, UDP, ARP, ICMP, DHCP, 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 Windows 2000, XP and Vista
- Ethernet Port 10/100 Base-T
- Drive CD-ROM

Software Features

- Software Downloadable yes
- Multiple Client Support 254
- Class of Services (CoS) 16 SIDs
- 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 4 x RJ45 - 10/100 Base-T auto detect
- RF Connector 1 x F-Type
- USB Port device 1x USB 1.1
- Button Reset
- LEDs 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 Information

- 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 ShippingWeight Approx. 16,5 kg
- Master-pack Quantity 12 units

Content of the Box

- Cable Gateway
- Power supply
- Ethernet Cable
- CD-ROM
- Quick Installation Guide

Professional Services

THOMSON Professional Services are available to address cable operator's demand for highly qualified technical support and 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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