

# TCW750-4

4 Ethernet-Ports  
Wireless Cable Gateway



On January 27<sup>th</sup> 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.

Technicolor 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 an 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 the sleek attractive design Technicolor has adopted as the new «family look».

CABLE  
DATA

## 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.

## High Speed Wireless Interface

The TCW750-4 supports the 802.11b/g standard at speeds up to 54Mb/s and integrates an internal 32-bit data bus guarantees superior handling of data traffic.

### Features at a Glance

- Euro-DOCSIS 2.0
- 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 at speeds up to 54Mb/s
- 4 Ethernet ports for wired connectivity and easy installation
- WPA, WPA2, WEP support (data encryption between the gateway and the PC)
- Reliable high-performance platform
- IPv6 ready
- VPNs with IPSec

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## Advanced in Security

To ensure end users and operators with the fullest possible secure solution, Technicolor 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 Technicolor 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.

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## 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 dB $\mu$ V (QAM 64)  
+47 to +77 dB $\mu$ V (QAM 256)
- BER <1x10<sup>-8</sup> @ C/N=25,5dB, QAM 64 with FEC,  
<1x10<sup>-8</sup> @ C/N=34,5dB, QAM 256 with FEC,  
received power = +47 to +54 dB $\mu$ V  
<1x10<sup>-8</sup> @ C/N=33dB, QAM 256 with FEC,  
received power = +54 to +77 dB $\mu$ V
- 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 dB $\mu$ V @ QPSK  
+68 to +115 dB $\mu$ V @ QAM 8/16  
+68 to +114 dB $\mu$ V @ QAM 32/64  
S-CDMA:  
+68 to +113 dB $\mu$ V /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  $\pm$  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

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### 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
■ Button	Reset / WPS
■ LEDs	Eth1-4, WLAN, Power, DS, US, Online / USB
■ 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

Technicolor Professional Services are available to address your demands for qualified technical support & warranty, product maintenance, access to training courses and tailor-made solutions to specific product evolution. For more information, please ask your usual contact person.

#### TECHNICOLOR WORLDWIDE HEADQUARTERS

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