# MediaAccess DCW775

## DOCSIS 3.0
## Wireless Cable Gateway

**CABLE**

DATA

*On January 27th 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.*

As cable standards keep evolving, Technicolor presents the DCW775, a DOCSIS 3.0 four-port GE Wireless Cable gateway. With this new offer Technicolor provides cable operators with high-bandwidth data transmission and enables them to stay ahead in content delivery with game and video over IP. This new generation of high-speed data services solutions introduces up to eight bonded downstream channels and four bonded upstream channels, allowing operators to provide their customers with four channels for data and four channels for dedicated IPTV. Thanks to the integrated dual split tuner solution (two 32 MHz capture windows), the operator will benefit from flexibility in channel allocation: it eases management when the channel frequency plan is loaded or separates data from other services, such as video over IP.

The DCW775 contains an MPEG2 over IP Encapsulation solution allowing the support of IPTV with existing QAM (digital video) broadcast infrastructure.

## High Speed Wireless Interface

The DCW775 has a Wi-Fi 802.11n wireless interface, offering speeds of up to 140 Mbps. This newest wireless standard reaches speeds of twice the range of 802.11g, bringing home networking to a completely new level and enabling real-time multimedia content streaming over a Wi-Fi network everywhere in the home. The gateway also supports multiple SSIDs.

## Features at a Glance

- DOCSIS® 3.0 certified
- 64 MHz dual tuner
- Backward-compatible with DOCSIS® 2.0 (and older)
- 4-port Gigabit Ethernet router
- MPEG2 over IP Encapsulation solution
- Wi-fi 11n wireless connection
- Reliable high-performance platform
- Advanced power management
- Supports IPv4 and IPv6
- Advanced security features

**CL** CableLabs® CERTIFIED

**Wi Fi®** CERTIFIED

## 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 DCW775 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 GEthernet DCW775 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.

## ECO

Technicolor offers its customers environmentally friendly products. In addition to carefully selected plastics and packaging to minimize the ecological footprint, the DCW775 benefits from a unique combination of hardware and software features that reduce power consumption substantially. For instance, a button allows the user to disable/enable the wireless access point when its function is not required.

## Professional Services

Technicolor offers a wide array of services:

- Hardware: optimize warranty and hardware operations such as logistics, recycling, refurbishing, ...

- Support & Maintenance contracts providing a technical support line, software support, updates, upgrades, on-site support and training. Dedicated response time can be tailored to fit your organization with BRONZE, SILVER and GOLD agreements.

- Technicolor proposes Integration Services on technologies and products to accelerate your project whilst optimizing your time to market. We can also provide resources for project management, engineering and planning, and assist your team with device interoperability tests, proof of concept (POC) and trials.

- Missions to optimize your Total Cost of Ownership (TCO) by analyzing your hotline calls and proposing relevant actions to reduce your OPEX budgets.

- Leveraging its many years of expertise in creating gateway and set-top box products - with over 200 million devices delivered to diverse markets all around the world - Technicolor has built an experienced and dedicated design team guaranteeing state-of-the-art yet cost-effective designs, easy to use and install.

# MediaAccess DCW775

## DOCSIS 3.0
## Wireless Cable Gateway

# Technical Specifications

## Standards / Certifications

- Data    DOCSIS 3.0 certified
- CMTS interoperability    Any qualified DOCSIS CMTS

## Receiver

- Downstream modulation
     QAM 64/256
- Downstream frequency range
     54-1002 MHz
- Maximum downstream data range
     340 Mbps (theoretical) (42.88 Mbps x 8 channels)
- Capture windows    64 MHz capture window split into two windows of 32 MHz thanks to the integrated dual tuner solution
- Up to 8 downstreams
- Input signal level range    -15dBmV ~ + 15dBmV
- Input impedance    75 Ohm

## Transmitter

- Upstream modulation    QPSK and 8, 16, 32, 64 and 128 QAM
- Upstream frequency range
     5-42 MHz
- Maximum upstream data range
     131 Mbps (theoretical)
     (32.78 Mbps x 4 channels)
- 4 upstreams
- Channel bandwidth    200, 400 and 800kHz, 1.6, 3.2 and 6.4 MHz
- Output impedance    75 Ohm

## Wireless Features

- Protocol    802.11n certified
- Antenna    Dual internal antennas
- Throughput    Up to 120 Mbps 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
- Up to 8 virtual SSIDs

## Gateway Features

- NetworkpProtocol    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
- Routing 4-port

## PC Compatible

- Ethernet Port    10/100/1000 Base-T
- Drive    CD-ROM

## Software Features

- Downloadable software
- Multiple client support    254
- Class of Services (CoS)    16 SIDs
- Protocol filtering    Ethernet & IP
- SNMP management    V2, V3
- Security    BPI+
- HTTP Server

## Interfaces / Physical

- Wireless    2 internal antennas
- Giga Ethernet    4 x RJ-45 10/100/1000 Base-T auto detect
- USB 2.0    1 x master port
- RF Connector    1 x F-Type
- Buttons    Reset, WPS
- LEDs    Power, DS, US, Online, Wireless, Eth1-4, USB
- Power supply    External, 120-240VAC 50-60Hz
- Operating temperature    0° to 40°C
- Operating humidity    20% to 90% non-condensing
- Storage temperature    -20° to 70°C
- Safety    UL

## Content of the Box

- DOCSIS 3.0 Wireless Cable Gateway
- Power supply
- Ethernet cable
- CD-ROM
- Quick Installation Guide

# technicolor