MediaAccess TC7200.d

Dual Band Selectable Wireless n Cable Gateway

8 x 4

CABLE
DATA
VIDEO

Latest High-Bandwidth Technology

The TC7200.d is a (Euro)DOCSIS 3.0 wireless gateway introducing the next generation in high-speed data services. This new cable solution offers next to four bonded upstream channels, eight bonded downstream channels for wired download speeds of up to 440 Mbps. Operators can now offer their customers even faster broadband access as well as demanding IPTV services.

Other value-added applications such as a DLNA media server and hard disk sharing are also at your fingertips thanks to the TC7200.d's dedicated application processor.

Full Band Capture Solution

Thanks to its fully integrated 1 GHz wideband tuner, the TC7200.d exceeds SCTE-40+ performance and eliminates all frequency limitations of traditional wideband tuners. The TC7200.d enables use of the full Radio Frequency (RF) spectrum without the need for grouped channels. This helps the operator migrate its entire EuroDOCSIS 3.0 installed base from one to eight EuroDOCSIS downstream channels without having to re-align all its broadband channels to accommodate this new service.

Features at a Glance

- EuroDOCSIS® 3.0 compliant
- Dual mode DOCSIS®/EuroDOCSIS®
- Backward compatible with (Euro)DOCSIS® 2.0 (and older)
- 8 bonded downstream and 4 bonded upstream channels
- Full band capture tuner
- Built-in RF spectrum analyzer
- 4 GE LAN ports
- Dual band selectable Wi-Fi interfaces:
    - IEEE 802.11n 2.4 GHz (2x2)
    - IEEE 802.11n 5.0 GHz (2x2)
- 1 USB 2.0 master port
- MPEG2 over IP encapsulation solution
- Reliable high-performance platform
- Advanced security features
- IPv4, and IPv6 DS-Lite support
- Designed to meet the latest ECO standards

Wi-Fi 5 GHz

Wi-Fi CERTIFIED

Wi-Fi PROTECTED SETUP

RoHS COMPLIANT

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Flexible Wireless Interface

The TC7200.d comes with a dual band selectable IEEE 802.11n wireless interface, enabling the home user to change the radio frequency of his wireless network depending on his usage: 2.4 GHz for high-speed data services, and 5 GHz for high-quality video streaming or gaming.

The TC7200.d also supports up to 16 wireless networks (mSSID), enabling to set up independent virtual wireless access points. These additional wireless networks allow other wireless users to enjoy high-performance access without any compromise on the integrity of the basic network, thus keeping the original network access limited and secure.

Advanced Security

The integrated firewall provides Stateful Packet Inspection (SPI), and an integrated Intrusion Detection and Prevention System (IDS) engine which monitors a wide range of attack patterns, and logs potential security breaches to a local cache or remote server.

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

The TC7200.d also supports powerful wireless security mechanisms, such as Wi-Fi Protected Access (WPA, WPA2) together with the secure and user friendly Wi-Fi Protected Setup (WPS) connection and configuration mechanism for connecting wireless clients.

Easy to Use

Like all Technicolor modems and gateways, the TC7200.d 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, operational status, and connectivity status.

Multiple integrated web pages also allow direct access to the status and settings, including privacy and security information.

Video Streaming

The TC7200.d contains an MPEG2 to IP encapsulation solution allowing the capture of the DVB-C free-to-air video signal on the RF network and the distribution of this video signal over IP on the local network of the customer.

This feature is available upon software upgrade of the TC7200.d and is a first step for cable operator towards distributing IPTV without any change to their existing QAM (digital video) broadcast infrastructure.

Media Sharing

The TC7200.d acts as a fully compliant DLNA 1.5 Digital Media Server (DMS) and enables distribution of all content from any device to any device in the home. You can stream music, data, pictures and video from your gateway to devices connected to your wired or wireless home network.

In addition, the TC7200.d supports hot plugging of USB hard disk drives, allowing you to simply plug and play devices without the need to switch the gateway off first.

ECO

Technicolor is committed to offer its customers sustainable products and implements a set of ECO features to reach the best possible environmental performance. In addition to carefully selected plastics and packaging to minimize the ecological footprint, the TC7200.d benefits from a unique combination of hardware and software features that reduce power consumption substantially.

Professional Services

To reinforce our extensive portfolio of digital home solutions, Technicolor has a dedicated Professional Services team to make sure that every deployment is a success, from initial provisioning and integration to operations, upgrades, ongoing support and beyond.

Our wide array of services spans the entire customer project lifecycle, encompassing:

- Expert consulting

- Seamless system integration

- Warranty on all our products

- Qualified technical support and maintenance

- Efficient repair, refurbishment and recycling

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Technical Specifications

Hardware Specifications

■ Interfaces WAN	1 RF connector F-Type	
■ Interfaces LAN	4-port auto-MDI/MDI-X 10/100/1000 Base-T	
	Ethernet LAN switch (RJ-45)	
	Wi-Fi IEEE 802.11n 2.4 GHz on-board	
	Wi-Fi IEEE 802.11n 5.0 GHz on-board	
	1 USB 2.0 master port	
■ Interfaces other	WPS button	
	Reset button	
■ Dimensions	220 x 165 x 42 mm (8.7 x 6.5 x 1.6 in)	
■ Power supply	120-240 VAC, 50-60 Hz	
■ Operating temperature	0˚ to 40˚ C (32˚ - 104˚ F)	
■ Operating humidity	20 % to 90 % non-condensing	
■ Storage temperature	-20˚ to 70˚ C (-4˚ - 158˚ F)	

Cable Certifications

■ Data	EuroDOCSIS® 3.0 compliant
■ CMTS interoperability	Any qualified EuroDOCSIS® / DOCSIS® CMTS

Receiver Specifications

- ■ Downstream modulation
  QAM 64/256
- ■ Downstream frequency range
  108 - 1002 MHz
- ■ Maximum downstream data range
  440 Mbps (theoretical)
  (55.61 Mbps x 8 channels)
- ■ Capture windows Full Band Capture: possibility to have any
  of the 8 downstream channels over the full
  EuroDOCSIS® spectrum
- ■ Number of downstream channels
  Up to 8
- ■ Input signal level range -15 dBmV / + 15 dBmV
- ■ Input impedance 75 Ohm

Transmitter Specifications

- ■ Upstream modulation QPSK
  8, 16, 32, 64 and 128 QAM
- ■ Upstream frequency range
  5 - 65 MHz
- ■ Maximum upstream data range
  131 Mbps (theoretical)
  (32.78 Mbps x 4 channels)
- ■ Number of upstream channels
  4
- ■ Channel bandwidth 200, 400 and 800 kHz, 1.6, 3.2 and 6.4 MHz
- ■ Output impedance 75 Ohm

Wireless Specifications

- ■ Selectable Wi-Fi access point, Wi-Fi certified®
  Either:
  2.4 GHz (2x2) IEEE 802.11n AP
  5.0 GHz (2x2) IEEE 802.11n AP
- ■ Wi-Fi power Standard
- ■ Wi-Fi Protected Setup (WPS™)
- ■ Wi-Fi security levels WPA2™-Personal / WPA™-Personal
  IEEE 802.1x port-based authentication
  with RADIUS client
  WEP™
- ■ Up to 16 BSSIDs (virtual AP)
- ■ RX/TX switched diversity
- ■ 2x2 MIMO 2.4 GHz Wi-Fi features
  SGi
  STBC
  20/40 MHz coexistence
- ■ 2x2 MIMO 5.0 GHz Wi-Fi features
  SGi
  STBC
  20/40 MHz and 40 MHz mode
- ■ Dynamic rates switching for optimal wireless rates
- ■ Manual/auto radio channel selection

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Technical Specifications

Management Features

- User-friendly GUI via HTTP
- Web-based user interface management and administration
- Logging and alert

Security Features

- Stateful Packet Inspection Firewall (SPIF)
- Customizable firewall security levels
- Intrusion detection and prevention (DoS, SYN Flood, Ping of Death)
- Parental control — URL- and content-based website filtering

Networking Features

- Network protocol — IP, TCP, UDP, ARP, ICMP, DHCP, TFTP, SNMP, HTTP
- Protocol filtering — Ethernet and IP
- SNMP management — SNMP v2, SNMP v3

Software Specifications

- Downloadable software
- Multiple client support — 254
- Class of Services — 32 DSIDs and 32 Service Flows
- Security — BPI+
- HTTP server

Environmental features

- Power control features — Power reduction schemes built-in

Content of the Box

- Dual Band Selectable Wireless n Cable Gateway
- Power supply unit
- Ethernet cable (RJ-45)
- CD-ROM
- Quick Installation Guide

Technicolor TC7200.d back panel

technicolor