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MediaAccess TC7210.d

Wireless .11ac
Cable Gateway

CABLE

DATA

Next-Gen Wireless Technology for Next-Gen Speeds

The TC7210.d is one of the first dual band concurrent Wi-Fi ultra broadband gateways to feature the next-generation IEEE 802.11ac wireless standard for the 5 GHz band. With its optimized antenna configuration, this enhanced wireless solution enables even higher throughput and better coverage over the much less crowded 5 GHz radio, for real-time content delivery. Simultaneously, it guarantees uninterrupted transmission of data services over IEEE 802.11n using the 2.4 GHz band.

Latest High-Bandwidth Technology

The TC7210.d is a EuroDOCSIS 3.0 wireless gateway introducing the next generation in high-speed data services. This new cable solution offers next to four bonded upstream channels, 16 bonded downstream channels for wired download speeds of up to 800 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 TC7210.d dedicated application processor.

Features at a Glance

- EuroDOCSIS® 3.0 compliant
- Dual mode DOCSIS®/EuroDOCSIS®
- Backward compatible with (Euro)DOCSIS® 2.0 (and older)
- Full band capture tuner
- 4 GE LAN ports
- Wireless networking on-board:
    - IEEE 802.11n 2.4 GHz (2x2)
    - IEEE 802.11ac 5 GHz (3x3)
- 1 USB master port
- MPEG2 over IP encapsulation solution
- Advanced security features
- IPv4, and IPv6 DSLite support
- Designed to meet the latest ECO standards

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Full Band Capture Solution

Thanks to its fully integrated 1 GHz wideband tuner, the TC7210.d exceeds SCTE-40+ performance and eliminates all frequency limitations of traditional wideband tuners. The TC7210.d enables use of the full radio frequency (RF) spectrum without the need for grouped channels. This helps the operator migrate its entire (Euro)DOCSIS 3.0 install base from one to 16 (Euro)DOCSIS downstream channels without having to re-align all its broadband channels to accommodate this new service.

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 TC7210.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.

The support of multiple SSIDs in the gateway enables support for up to four independent wireless access networks. These additional wireless networks allow other wireless users to enjoy the high-performance access without compromising the integrity of the basic network, thus keeping the original network access limited and secure.

Easy to Use

Like all Technicolor modems and gateways, the TC7210.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 and connectivity status.

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

Video Streaming

The TC7210.d contains an MPEG2 over IP encapsulation solution allowing the support of IPTV with existing QAM (digital video) broadcast infrastructure.

Media Sharing

The TC7210.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 TC7210.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 TC7210.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 802.11ac 5.0 GHz on-board
  1 USB 2.0 master port
- Interfaces other — Power button
  WPS button
  Reset button
- Dimensions — 218 x 63 x 160 mm (8.6 x 2.5 x 6.3 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
  880 Mbps (theoretical)
  (55.61 Mbps x 16 channels)
- Capture windows — Full Band Capture: possibility to have any of the 16 downstream channels over the full EuroDOCSIS® spectrum
- Number of downstream channels
  Up to 16
- 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 - 85 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

Management Features

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

Wireless Specifications*

- Full dual band concurrent Wi-Fi access points, Wi-Fi certified®
  2.4 GHz 2x2 IEEE 802.11n AP
  5.0 GHz 3x3 IEEE 802.11ac AP
- Wi-Fi power — Standard
- WPA(2)™-personal support of Temporal Key Integrity Protocol (TKIP), IEEE802.1x port-based authentication with RADIUS client
- Wi-Fi Protected Setup (WPS™)
- Up to 16 BSSID (virtual AP) support
- Security and service segregation per SSID
- Wi-Fi Hotspot functionality with SoftGRE standard
- Dynamic rate switching for optimal wireless rates
- 5 internal antennas

*Wireless configuration can be tailored to customer requirements

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

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Technical Specifications

Environmental features

▪ Power control features   Ability to turn off any or all modules
Slow down or turn off processors
Turn on or turn off external interfaces
Dynamic power consumption reduction

Content of the Box

▪ Wireless .11ac Cable Gateway
▪ Power supply unit
▪ Ethernet cable (RJ-45)
▪ CD-ROM
▪ Quick Installation Guide

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