technicolor

toner
cable equipment, inc.
www.tonercable.com

MediaAccess TC4310
Ultra-Broadband Cable Modem

- DOCSIS® 3.0 compliant
- Backward compatible with DOCSIS® 2.0 (and older)
- 4 bonded upstream and 16 bonded downstream channels
- Full band capture tuner
- Built in RF spectrum analyzer
- 1 GE LAN port
- MPEG2 over IP encapsulation solution
- MoCA immunity in a MoCA capable environment
- IPv4, and IPv6 DS-Lite support
- Designed to meet the latest ECO standards

Latest High-Bandwidth Technology

The TC4310 is a DOCSIS 3.0 **data** cable **modem** introducing the next generation in high-speed data services. This new cable solution offers **up** to four bonded upstream channels **and up to sixteen** bonded downstream channels for wired download speeds of up to 680 Mbps. Operators can now offer their customers even faster broadband access as well as demanding IPTV services.

Full Band Capture Solution

Thanks to its fully integrated 1 GHz wideband tuner, the TC4310 exceeds SCTE-40+ performance and eliminates all frequency limitations of traditional wideband tuners. The TC4310 enables use of the full Radio Frequency (RF) spectrum without the need for grouped channels. This helps the operator migrate its entire DOCSIS 3.0 install base from one to **sixteen** DOCSIS downstream channels without having to re-align all its broadband channels to accommodate this new service.

Advanced Security

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

Easy to Use

Like all Technicolor modems and gateways, the TC4310 is an easy to use **and** install.

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.

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 TC4310 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 — 1 1000 Base-T Ethernet port
- Interfaces other — Reset button
- Dimensions — 150 x 30 x 150 mm (5.9 x 1.18 x 5.9 in)
- Power supply — 120 VAC, 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 — DOCSIS® 3.0 compliant
- CMTS interoperability — Any qualified DOCSIS® CMTS

Receiver Specifications

- Downstream modulation
  - 64, 256 QAM
- Downstream frequency range
  - 108 - 1002 MHz
- Number of downstream channels
  - Up to 16
- Maximum downstream data range
  - 680 Mbps (theoretical)
  - (42.88 Mbps x 16 channels)
- Capture windows — Full Band Capture: possibility to have any of the 16 downstream channels over the full DOCSIS® spectrum
- 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
- Number of upstream channels
  - 4
- Maximum upstream data range
  - 108 Mbps (theoretical)
  - (27 Mbps x 4 channels)
- 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

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

- MediaAccess TC4310
- Ethernet cable (RJ-45)
- Power supply unit
- Quick Setup leaflet(s) (optional)

TC4310 back panel