



MediaAccess TC4300 Ultra-Broadband Cable Gateway



Features at a Glance

- DOCSIS® 3.0 compliant
- Backward compatible with DOCSIS® 2.0 (and older)
- 4 bonded upstream and 8 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 TC4300 is a DOCSIS 3.0 cable gateway introducing the next generation in high-speed data services. This new cable solution offers next to four bonded upstream channels, 8 bonded downstream channels for wired download speeds of up to 340 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 TC4300 exceeds SCTE-40+ performance and eliminates all frequency limitations of traditional wideband tuners. The TC4300 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 eight 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 TC4300 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 TC4300 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 TC4300 and is a first step for cable operator towards distributing IPTV without any change to their existing QAM (digital video) broadcast infrastructure.

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 TC4300 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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Ultra-Broadband Cable Gateway

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 8
■ Maximum downstream data range	340 Mbps (theoretical) (42.88 Mbps x 8 channels)
■ Capture windows	Full Band Capture: possibility to have any of the 8 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 TC4300
- Ethernet cable (RJ-45)
- Power supply unit
- Quick Setup leaflet(s) (optional)
- Safety Instructions & Regulatory Information booklet (optional)



TC4300 back panel