

## DCM425

Digital Cable Modem



On January 27<sup>th</sup> 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.

**CABLE**  
DATA

Technicolor's DOCSIS 2.0 certified cable modem, the DCM425 supports up to 16 upstream flows with improved data throughput rates. This allows operators to provide tiered data services and offer more efficient traffic prioritization schemes for advanced services. The DCM425 allows symmetrical data transfer, and tripled upstream throughput.

Technicolor's robust case design is consistent throughout its product line of cable modems and gateways.

## Easy to Use, Easy to Install

As all Technicolor gateways, the DCM425 with Ethernet and USB port 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.

## Bridging

Allows simultaneous connections of two PCs, enables Ethernet and USB port data traffic bridging.

## Advanced Diagnostics

- Advanced web pages to facilitate installation and troubleshooting
- Easy configuration and set-up
- Remote access via SNMP, Web Page
- Post-installation easily managed with SNMP

## Features at a Glance

- DOCSIS 2.0 certified
- Propane™ technology, enabling the connection of more Internet users without additional network bandwidth
- Ethernet and USB 1.1 ports for wired connectivity and easy installation
- Reliable high-performance platform
- IPv6 ready
- BPI+ communications privacy to support secure data exchange between modems & cable operator's servers

**CableLabs®**

# DCM425

Digital Cable Modem



## Technical Specifications

### Standards / Certifications

- Data DOCSIS 2.0 certified
- CMTS Interoperability Any qualified DOCSIS CMTS
- WHQL-certified USB driver yes

### Receiver

- Downstream Modulation QAM 64/256
- Downstream Frequency Range 88-860 MHz
- Maximum Downstream Data Range 30.34/42.88 Mbps (QAM 64/ QAM 256)
- Input Signal Level Range -15 to +15 dBmV (QAM 64)  
-15 to +15 dBmV (QAM 256)
- BER <math>10^{-8}</math> @ C/N=23.5dB, QAM 64 with FEC,  
<math>10^{-8}</math> @ C/N=30dB, QAM 256 with FEC,  
received power = -6dBmV to +15dBmV  
<math>10^{-8}</math> @ C/N=33dB, QAM 256 with FEC,  
received power = -15dBmV to -6dBmV
- Input Impedance 75 Ohm

### Transmitter

- Upstream Modulation QPSK and 16 QAM
- Additional Upstream Modulation Types QAM 8/32/64 for A-TDMA and QAM 128 for S-CDMA channels
- Upstream Frequency Range 5-42 MHz
- Maximum Upstream Data Range 30.72 Mbps (QAM 64)
- Output Signal Level Range A-TDMA:  
+8 to +58 dBmV/QPSK  
+8 to +55 dBmV @ QAM 8/16  
+8 to +54 dBmV @ QAM 32/64  
S-CDMA:  
+8 to +53 dBmV/All
- Output Impedance 75 Ohm
- Channel Bandwidth Programmable (200\*N KHz)  
N=1, 2, 4, 8, 16, 32
- Automatic Level Adjust yes
- Gain Control Range 50dB
- Frequency Stability 5 kHz

### PC Compatible

- CPU 486DX 66MHz (Pentium Preferred)
- Memory RAM 16MB (32MB Preferred)
- Operating Systems Windows 2000, XP and Vista
- Available Disk Space 76 MB
- Sound Card 16-Bit
- Video VGA (SVGA Preferred)
- Ethernet Port 10/100 Base-T
- USB port With Windows 98SE/ME/2000/XP/Vista
- Drive CD-ROM

### Software Features

- Software Downloadable yes
- Bridging Between USB and Ethernet
- Multiple Client Support 32
- Class of Services (CoS) 16 SIDs
- Protocol Filtering Ethernet & IP
- SNMP Management V2, V3
- Security BPI+
- Privacy Through encryption between gateway and PC
- HTTP Server (CM status) yes

### Interfaces / Physical

- Ethernet 1 x RJ45 - 10/100 Base-T auto detect
- RF Connector 1 x F-Type
- USB Port device 1x USB 1.1
- Button Reset
- LEDs Message, Cable Activity, Cable Link, PC Link, Internet
- Power Supply External, 120VAC 60Hz
- Operating Temperature 32° to 104°F
- Operating Humidity 20% to 90% non-condensing
- Storage Temperature -4° to 158°F
- Safety FCC Part15, UL

### Packaging Information

- Cabinet Dimensions in: 5" (W) x 4 1/4" (L) x 1 1/2" (H)
- Packaging Dimensions in: 10 1/4" (W) x 6 3/4" (L) x 4" (H)
- Shipping Weight Approx. 2.5 lbs
- Master-pack Dimensions in: 19 1/4" (W) x 14" (L) x 10 1/2" (H)
- Master-pack Shipping Weight Approx. 25 lbs
- Master-pack Quantity 10 units

### Content of the Box

- Cable Modem
- Power supply
- Ethernet Cable
- CD-ROM
- Quick Installation Guide

Technicolor Professional Services are available to address your demands for qualified technical support & warranty, product maintenance, access to training courses and tailor-made solutions to specific product evolution. For more information, please ask your usual contact person.

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#### SALES CONTACT

For more information please get in touch with your usual sales representative or use the following email:

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