



## SMCD3CM

Residential DOCSIS 3.0 Cable Modem for High Speed Broadband Networking

### OVERVIEW

The SMCD3CM Residential Cable Modem provides high-speed Internet access to both residential and SOHO users. This new cable modem operates on up to four downstream bonded channels and up to four upstream bonded channels enabling higher performance and throughput. Taking advantage of DOCSIS 3.0 technology with asymmetric connections can achieve over 160Mbps downstream and 40Mbps upstream. The designed architecture allows future upgrades without replacing with new hardware. Installation is quick and easy. The SMCD3CM is DOCSIS 3.0 certified to ensure compatibility with cable operator networks.

### KEY FEATURES

#### Basic Functions

- Fully interoperable with all DOCSIS cable networks
- Compatibility with DOCSIS 1.0, 1.1, 2.0, 3.0
- Share Cable connection across multiple computers with support for up to 64 connected devices
- IPv4 and IPv6 capable

#### Easy Installation

- Comprehensive LED display for easy installation and monitoring
- No additional software required
- GUI displays helpful troubleshooting information
- CLI enables advanced troubleshooting

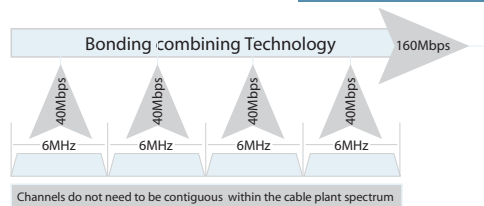
#### High Throughput Performance

- Gigabit Ethernet port ensures maximum speed is delivered to the customers CPE
- Downloads extremely large-files in second
- Enjoy Real time online gaming access
- Real time video transmission

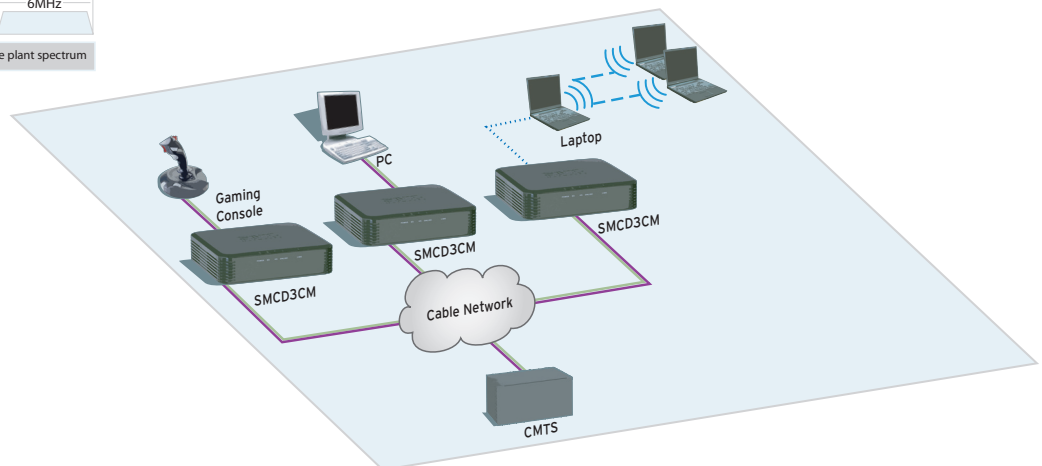
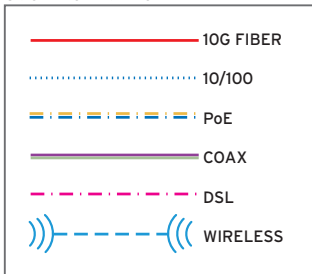
#### DOCSIS 3.0 Features

- 4 upstream and 4 downstream channel bonding
- Remote management using SNMP v1/2/3
- Dynamic Channel Change (DCC) support
- BPI+ enables data security

### APPLICATION DIAGRAM



#### SMC DIAGRAM LEGEND



## TECH SPECS - SMCD3CM

### COMPATIBILITY

- Platform independent - works with PC, OSX, Linux, MAC, Unix

### HARWARE FEATURES

- 5 LEDs display Power, US, DS, Online and Link status
- Power supply is DC 12V 1A
- Wall mount

### PORTS

- F type female Cable Connection 75ohm
- One Gigabit Ethernet port
- Single External Power Supply

### SOFTWARE FEATURES

- GUI displays common troubleshooting information and modem status
- Meets all DOCSIS3.0 requirements

### MODULATION

- Downstream: 64QAM, 256QAM
- Upstream: QPSK, 4, 8, 16, 32, 64QAM and 128QAM (SCDMA only)

### MAXIMUM DATA RATE

- Downstream: >160Mbps
- Upstream: >40Mbps

### BANDWIDTH

- Downstream: 6MHz
- Upstream: 200kHz, 800kHz, 1.6MH, 3.2MHz,6.4MHz

### SYMBOL RATE

- Downstream: 64QAM 5.057 Msym/s, 256QAM 5.361 Msym/s
- Upstream:160,320,640,1280, 2560,5120 Ksym/s

### OPERATING LEVEL RANGE

- Downstream: -15 to + 20dBmV per channel, <33dBmV Total
- Upstream:
  - A-TDMA :
    - +17 to +57dBmV (32QAM, 64QAM); (54/51dBmV less per Channel if 2/more channels are used)
    - +17 to +57dBmV (8QAM, 16QAM); (55/52dBmV less per Channel if 2/more channels are used)
    - +17 to +61dBmV (QPSK); (58/55dBmV less per Channel if 2/more channels are used)
  - S-CDMA
    - +8 to +56dBmV(53 dBmV less per Channel if more than 1 channel is used) (all modulations)

### CHANNEL BONDING

- Downstream : Up to 4 channels
- Upstream : Up to 4 channels

### FREQUENCY RANGE

- Downstream: 5 To 85MHz
- Upstream: 108 To 890MHz

### COMPLIANT STANDARD

- Supports CableLabs DOCSIS 1.0/1.1/2.0/3.0

### NETWORK INTERFACE

- 10/100/1000 Base-T Ethernet

### NETWORK PROTOCOL

- TCP/IP/IPv6/IPv4
- SNMP V1/2/3

### ENVIRONMENT

- Operating Temperature: 32 F° (0 C°) ~104 F° (40 C°)
- Storage Temperature: -22 F° (-30 C°) ~ 140 F° (80 C°)
- Operating Humidity: 5% to 95% R.H. (Non condensing)

### POWER CONSUMPTION

- INPUT DC: 12V DC

### REGULATORY COMPLIANT

- FCC CLASS B
- Safety: UL

### DIMENSION (L x W x H)

- 151 x 139 x 31 mm
- 5.9 x 5.5 x 1.2 in

### WEIGHT

- 2lb (Approximately)

### WARRANTY

- Limited Lifetime

## CONTACT

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