



SMCD3CM

Maximum Wideband Speeds
from Residential DOCSIS 3.0 Cable Modems

The Opportunity: The Fastest Wideband

Residential customers are demanding faster Internet services as their requirements for bandwidth increase. Deployment of DOCSIS 3.0 cable modems enable Cable Operators to offer the fastest Internet services to their current and prospective residential customers.

Cable operators have established a profitable position in the residential market by offering consumers wideband Internet services over DOCSIS. DOCSIS 3.0 provides a unique opportunity for operators to increase the speed of their data service offerings to address this large yet growing and highly profitable market segment.



The Solution: SMCD3CM

The **SMCD3CM** is the solution that you've been looking for. The SMCD3CM is a leading DOCSIS 3.0 cable modem that allows Cable Operators to aggressively grow their residential customer base.

SMC is a specialist in high-quality, reliable CPE products to MSO's. The SMCD3CM is designed to provide:

- Superior Performance
- Maximum Ease of Deployment + Ease of Use
- Minimal Support Required

We have over 4 Million SMC CPE gateways, routers, and modems currently in service in North America. The launch of the SMCD3CM will continue our nearly 40 year history of delivering excellence for our customers.



SMCD3CM Specification Overview



The **SMCD3CM** is a powerful and flexible DOCSIS 3.0 cable modem providing high-speed Internet access for residential and SOHO users

Taking advantage of DOCSIS 3.0 technology, the cable modem operates on up to four downstream and/or upstream bonded channels supporting speeds of up to 160Mbps downstream and 120Mbps upstream.

The SMCD3CM's architecture allows operators to deploy future upgrades without replacing with new hardware. Installation is quick and easy, reducing the cost of deployment for operators.

This powerful and flexible platform provides the ideal solution for Cable Operators to aggressively grow their residential customer base.

SMCD3CM Key Features:

Functions

- Fully interoperable with all DOCSIS cable networks
- Compatibility with DOCSIS 1.0, 1.1, 2.0, 3.0, IPV4 and IPV6 capable
- Share cable connection across multiple computers with support for up to 64 connected devices

Easy Installation

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

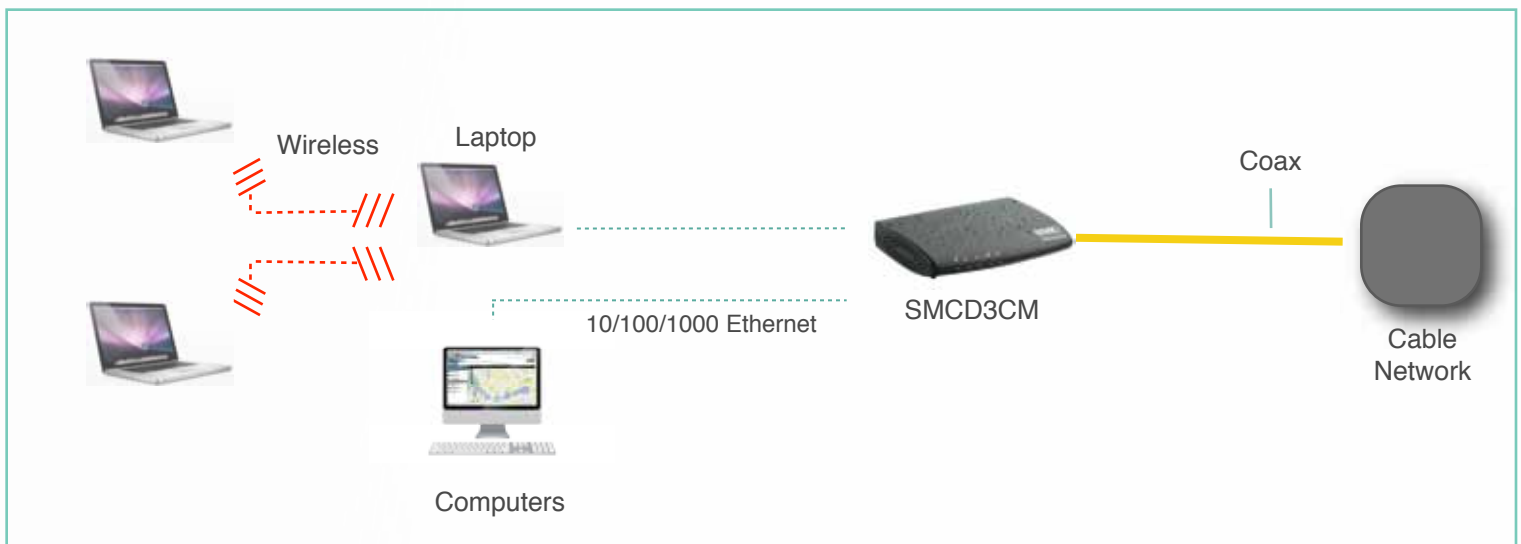
High Throughput Performance

- Gigabit Ethernet port ensures maximum speed is delivered to the customers' CPE
- Downloads extremely large files in seconds
- Real-time video transmission, enjoy real time online gaming access

DOCSIS 3.0 Features

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

Application Overview



Tech Specs: SMCD3CM



COMPATIBILITY

- Platform independent – works with PC, Mac, OSX, Linux, Unix
- DOCSIS 1.0/1.1/2.0/3.0 • IEEE 802.3, 802.3u

NETWORK INTERFACE

- 10/100/1000 Base-T Ethernet

PORTS

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

SOFTWARE FEATURES

- DOCSIS 3.0 certified
- GUI display common troubleshooting information, modem status, and feature setup
- DHCP Server
- CLI provides enhanced troubleshooting and setup
- RIPv1/2 Support
- Downloadable configuration files allow for easy setup and installation

MODULATION

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

CHANNEL BONDING

- Downstream: Up to 4 Channels
- Upstream: Up to 4 Channels

MAXIMUM DATA RATE

- Downstream: >160 Mbps
- Upstream: >120Mbps

BANDWIDTH

- Downstream: 6/8Mhz
- Upstream: 200Khz, 800Khz, 1.6MHz, 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

FREQUENCY RANGE

- Downstream: 88MHz to 1GHz
- Upstream: 5 to 42 MHz

COMPLAINT STANDARD

- Supports CableLabs DOCSIS 1.0/1.1/2.0/3.0

LED

- Power, DS, US Ethernet, Status

FREQUENCY SEARCH

- Frequency Cache: 4 entries frequency
- Channel Plan:
 - 6MHz step (DOCSIS)
 - 7/8MHz step (EuroDOCSIS) - option

MAXIMUM NUMER OF CPEs

- 64 (64 MAC Addresses)

FILTERING

- LLC: 16
- IP:32

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 (53dBmV less per Channel if more than 1 channel is used - all modulations)

OSSI

- Protocol: ICMP/SNMP V1, V2c, V3, IGMP V3
- MIB: MIB II/MCNS MIB/Proprietary MIB

ENVIRONMENT

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

REGULATORY CERTIFICATION

- FCC Class B
- Safety: UL/cUL

SIZE: (L x W x H)

- 5.6 x 4.7 x .96 in
- 142.5 x 120.47 x 14.5 mm

WEIGHT

- 2lb (Approximately)

POWER CONSUMPTION

- INPUT: 6V DC
- Consumption: 5W operational and 6.5W Max

CONTACT

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