



SMC8511 Outdoor Cable Modem

OVERVIEW

The SMC8511 Outdoor Cable Modem provides cable operators a low-cost alternative for delivering data services for specialized applications such as outdoor traffic and surveillance cameras and traffic light synchronization. This is a perfect solution for Cable operators seeking to generate new revenues by leveraging existing DOCSIS infrastructure for non-traditional applications requiring outdoor Ethernet delivery.

KEY FEATURES

Rugged, Outdoor Enclosure

Weatherized industrial design to withstand harsh outdoor environments

Power over Ethernet (PoE) support (12V, 4A)

Cable Plant Ready

Powered by 60-90 VAC CATV power supply

Roughly the size of an HFC cable node

Mounts on the strand with familiar CATV hardware

Internal DOCSIS 1.1/2.0 Cable Modem

Advanced Business Class Features

Static IP support via RIP v1/v2

Alternatively supports static IPs with static routes

DHCP server supports management of Static IP block

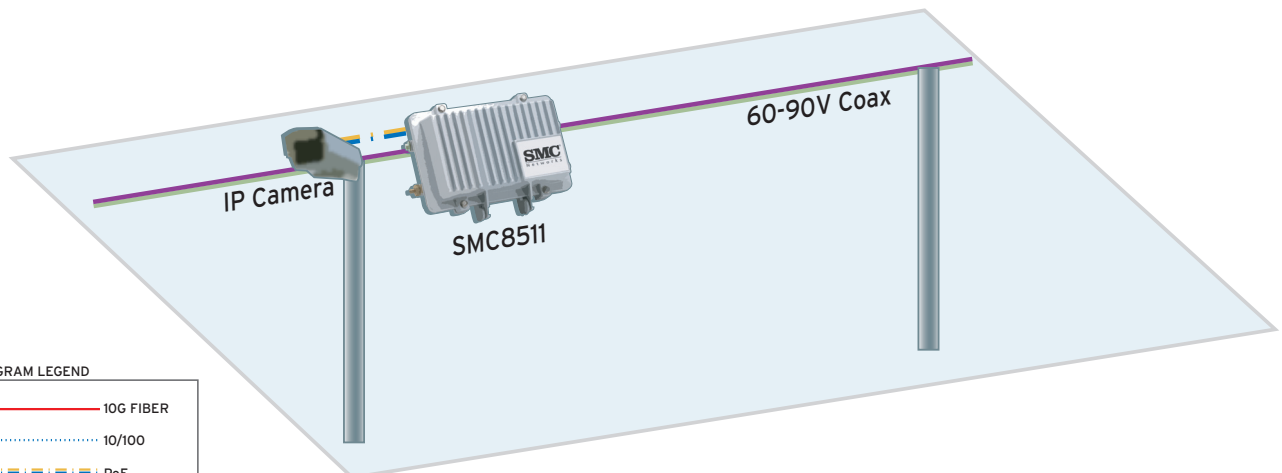
Full Featured Operational Support

User friendly and powerful CLI includes many tools for quick configuration and troubleshooting

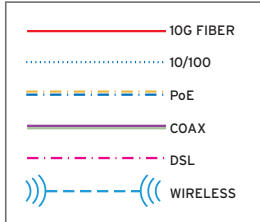
Remote management and provisioning via GUI and CLI

RADIUS, TACACS and TACACS+ login authentication

APPLICATION DIAGRAM



SMC DIAGRAM LEGEND



TECH SPECS - SMC8511

CABLE MODEM FEATURES

- DOCSIS 2.0 certified
 - Downstream:
 - Modulation: 64/256QAM auto detection
 - Frequency Range: 91-860 MHz
 - Maximum Data Rate:
 - 41Mbps (64QAM)
 - 55Mbps (256QAM)
 - Bandwidth: 6MHz
 - Receive Power Levels:
 - -15dBmV to +15dBmV, 64QAM
 - -13dBmV to +17dBmV, 256 QAM
 - Signal-to-Noise Ratio (SNR):
 - 64QAM: >=25.5 dB
 - 256QAM: >=34.5dB (13dBmV to -6dBmV)
 - >=31.5dB(-6dBmV to +17dBmV)
 - Upstream:
 - Frequency Range: 5-42 MHz
 - Modulation: 8/16/32/64/128 QAM and QPSK
 - Maximum Data Rate:
 - QPSK 0.32 ~ 10.24Mbps
 - 8QAM 0.48 ~ 15.36Mbps
 - 16QAM 0.64 ~ 20.48Mbps
 - 32QAM 0.80 ~ 25.60Mbps
 - 64QAM 0.96 ~ 30.72Mbps
 - 128QAM/TCM 30.72Mbps
 - Bandwidth:
 - TDMA: 200, 400, 800, 1600, 3200 and 6400 kHz
 - S-CDMA: 1600, 3200 and 6400 kHz
 - Transmit Power Levels:
 - TDMA:
 - +8 ~ +54dBmV(32QAM, 64QAM)
 - +8 ~ +55dBmV(8QAM, 16QAM)
 - +8 ~ +58dBmV(QPSK)
 - S-CDMA: +8 ~ +53dBmV(all modulations)

PROVISIONING & MONITORING

- Full featured remote management
- Remote diagnostics and statistics
- Remote software download
- Quality of Service (QoS) features

SECURITY

- Password protected configuration access
- Web based authentication

CERTIFICATION

- FCC Part 15.247
- FCC Part 15 Class A

DIMENSION (L x W x H)

- 320 x 215 x 130mm
- 12.6 x 8.5 x 8.12in

WEIGHT

- 4 lbs
- 1.8 kg

POWER

- CATV 60-90 VAC thru CATV connector or 18-28 VDC via Ethernet connector
- Consumption: 25 Watts

ETHERNET

- 4 pins used for data
- 4 pins used for POE POE - 12V 4A

OPERATING ENVIRONMENT

- Operating Temperature: -40° F (-40 °C)~ 149 °F (65°C)
- Humidity: 5% ~ 95% (Non -condensing)

ENVIRONMENTAL

- Operating Temp: -30 to +65 C
- -40 to +65 C with opt. heater)
- Operating Humidity: 5%-95% non-condensing
- Storage Temp: -30 to +70 C

WARRANTY

- Limited Lifetime

CONTACT

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