

SMCD3GN-RES

DOCSIS 3.0 Draft-N Wireless Residential Cable Modem Gateway

OVERVIEW_

The SMCD3GN-RES is a powerful DOCSIS 3.0 gateway providing 802.11n wireless connectivity to high-speed "Wideband" Internet services. Taking advantage of DOCSIS 3.0 technology, the gateway operates on up to four downstream and/or upstream bonded channels supporting speeds of up to 160Mbps downstream and 120Mbps upstream. In addition, the SMCD3GN-RES offers numerous remote management options, provisioning via GUI, CLI or downloadable configuration file, advanced troubleshooting capabilities, Stateful Packet Inspection (SPI) firewall, PPTP, L2TP, and IPSec VPN passthrough, Universal Plug and Play (UPnP), and DOCSIS Quality of Service (QoS).

KEY FEATURES

Functions

802.11n WiFi radio featuring 3 internal antennas

Four Gigabit Ethernet ports ensures maximum speed is delivered to the customer's CPE

Compatible with DOCSIS 1.0, 1.1, 2.0, 3.0 cable infrastructure

IPV4 and IPV6 capable

Advanced Features

Full featured Command Line Interface (CLI) supports detailed troubleshooting

Advanced SPI firewall

Port triggering, port filtering, and special application handling

Easy Installation

Wi-Fi Protected Setup (WPS) for easy and secure configuration of a wireless network

Downloadable configuration file simplifies installation process

GUI displays helpful troubleshooting information

Comprehensive LED display for easy installation and monitoring

System Management

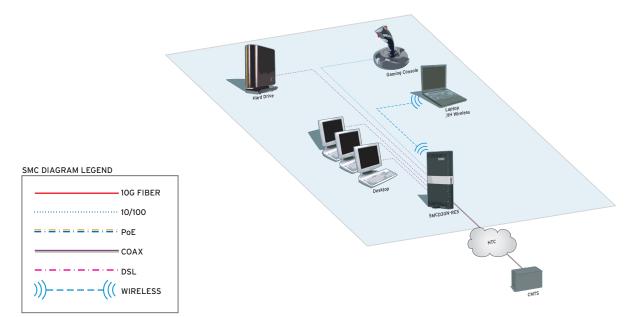
TELNET, SSH

TFTP

System Logging

SNMP v1/2c/3

APPLICATION DIAGRAM-





TECH SPECS - SMCD3GN-RES

COMPATIBILITY

- Platform independent works with PC,OSX, Linux, MAC, UNIX
- DOCSIS 1.0/1.1/2.0/3.0 compliant
- IEEE 802.3, 802.3u
- · SPI Firewall meet ICSA Guidelines

NETWORK INTERFACE

- 10/100/1000 Base-T-Ethernet
- USB2.0 Host port
- · Wireless .11N MIMO

PORTS

- 4 ports 10/100/1000 MDI/MDIX auto sensing switch
- 1 IEEE 802.11n wireless interface
- TR-68 coloring for 1 USB 2.0 Connector Type B
- TR-68 coloring for 4 Ethernet port
- Cable Interface F type female 75ohm

CHANNEL BONDING

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

SOFTWARE FEATURES

- GUI display common troubleshooting information, modem status, and feature setup
- Full features CLI provides enhanced troubleshooting and setup
- DHCP server
- Ipv6 support coexist Ipv4
- Downloadable configuration files allow for easy setup and installation.
- Universal Plug and Play (UPnP) enabling any UPnP devices seamlessly
- Quality of Services (QoS) ensure high quality performance
- SAMBA for USB Host port connection of USB hard drives*
- GUI/SNMP/CLI addition to present PHY usage (multiple channels parameters)
- Port Forwarding
- 64/256QAM auto detection
- Independent resets for downstream and upstream blocks
- Fragmentation and concatenation enabling Quality of Server (QoS) features
- Supports 64/128/256 bit RC4 authentication and encryption

NETWORK PROTOCOL

- IEEE 802.1d compliant bridging
- DHCP Client/Server
- UDP
- DNS Relay
- ToD Client
- ARP
- ICMP
- FTP/TFTP
- Telnet

SECURITY

- · Password protected configuration access with multiple levels
- Stateful Packet Inspection (SPI) Firewall
- Network Address Translation (NAT)
- Application Level Gateways (ALG)
- Intrusion Detection
- · Denial of Service (DoS) prevention
- Trojan Horse Prevention
- Smart Tracking
- Domain Validation
- Multiple User Profiles
- Dynamic Address-User Mapping
- Web based authentication
- Comprehensive Logging
- VPN Passthrough (IPSec, PPTP, L2TP)
- Content and Filtering Features
- DMZ

RECEIVER

- Demodulation: 64/256QAM
- Max speed: 38Mbps (64QAM) / 43Mbps (256QAM) per channel
- DOCSIS 5120kbps/10Mbps (QPSK/16QAM)
- DOCSIS 41.4 Mbps (64QAM)/55.2Mbps (256QAM) bounding (DOCSIS) per channel
- +222.48(+200) Mbps with 4 DS channel bounding (EuroDOCSIS)
- Frequency range 91 to 857 MHz +30 kHz (Center)
- DOCSIS 108 to 862 MHz +30 kHz (Edge)
- EuroDOCSIS 93 to 767 MHz +30 kHz (Center) DOCSIS-J
- 50 MHz to 1002 MHz (DOCSIS

SIGNAL LEVEL

- -15dBmV to +15dBmV(Automatically Gain Controlled by CM)
- 17 dBmV

TRANSMITTER

- Modulation:
- TDMA,QPSK, 8QAM, 16QAM, 32QAM, 64QAM,128 QAM
- S-CDMA QPSK, 8QAM, 16QAM, 32QAM, 64QAM,128QAM
- Max Speed 320, 640, 1280, 2560, 5120kbps
- (QPSK),640, 1280, 2560, 5120, 10240kbps (160QAM)
- +122.88(+108) Mbps with 4 US channel bounding (DOCSIS/EuroDOCSIS)
- Frequency Range
- 5 to 42MHz (edge to edge) DOCSIS
- 5 to 65MHz (edge to edge)
- EuroDOCSIS/Dual
- 5 to 55MHz (edge to edge) DOCSIS-J
- 5 to 42 MHz edge to edge, or
- 5 to 85 MHz edge to edge (DOCSIS)
- (Optional upstream frequency range 5-85 MHz; Extended Upstream Frequency Range)

REGULATORY CERTIFICATION

- FCC Part 15B Class B
- UL/cUL

DIMENSION (L x W x H)

• 10.6 x 6.1 x 1.4 in / 26.8 x 15.5 x 3.5 cm

LEDs

 Power, DS(Downstream), US(Upstream), Online, Link, Diag, LAN (4), WiFi. WPS, USB

POWER

• 12VDC 2A

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