



SMC8414-2PD-SIP

2-Port DOCSIS 2.0 Broadband VoIP Gateway with DECT 6.0

OVERVIEW

SMC's DOCSIS 2.0 2-Port VoIP Cable Modem speeds installation time by supporting wireless handsets via the Digital Enhanced Cordless Telecommunications (DECT) standard. No longer is it necessary to have the Cable Modem located near an existing telephone jack; with SMC's DECT 6.0 compliant solution, customers can add up to six wireless handsets throughout their home or business, all taking advantage of the enhanced sound quality, protection against eaves dropping and superior range that DECT provides. In addition, customers enjoy advanced call features including Push-to-Talk between handsets and conference calling between up to four handsets and the telephone network. And as a DOCSIS 2.0 compliant device, MSOs will be able to provide blazing fast data services, ensuring business and residential customers premium VoIP QoS.

KEY FEATURES

Basic Functions

IMS Subscriber Identification Module (ISIM)

Support Multiple Handset: Up to 6 handsets

DECT 6.0

Security, QoS

Network Address Book

My address book is backed up in the network and can be synchronized

255 Name and Number Directory depending on handset

DECT User Friendly Setting

Handset Naming

Intercom Between Handsets

Home control

Push to Talk (walkie talkie)

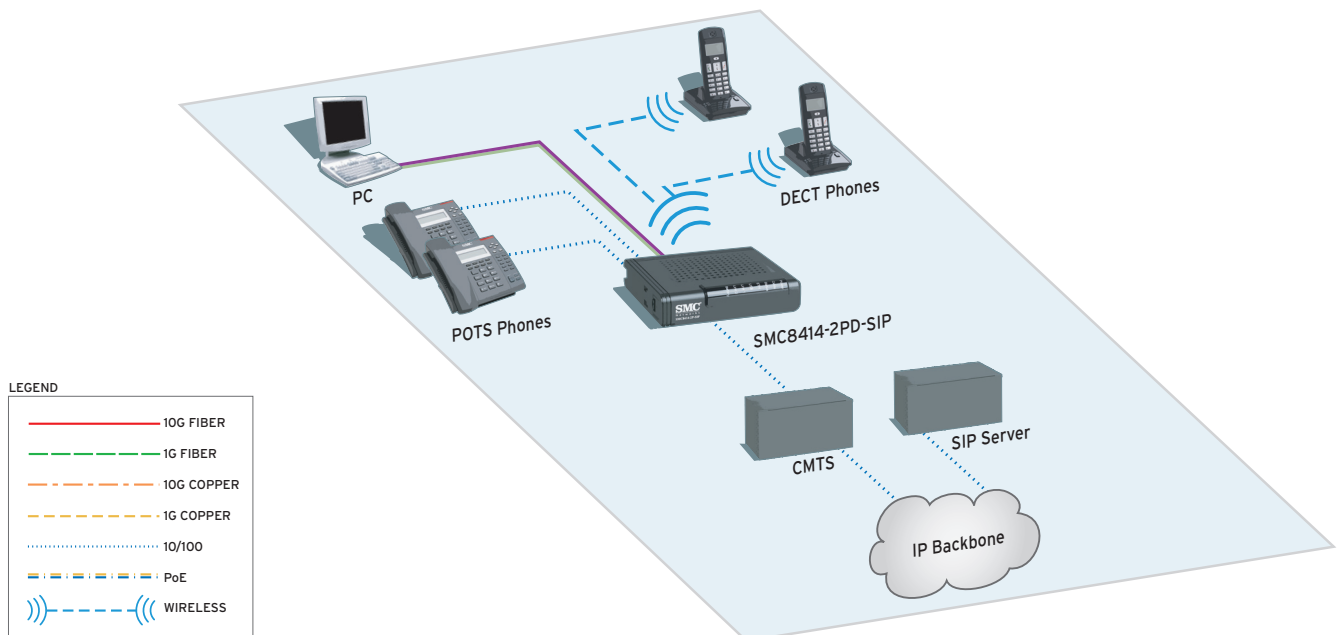
Extended Range- 300 yards

Cable Modem Features

DOCSIS 2.0/1.0 /1.1 Compliant

SIP version2

APPLICATION DIAGRAM



TECH SPECS - SMC8414-2PD-SIP

PHYSICAL INTERFACE

- DOCSIS 2.0/1.0/1.1 compliant
- 10/100 Mbps LAN port
- 802.11b/g WLAN
- 2 FXS interface with VoIP capability
- USB 1.1 OTG
- DECT 6.0 cordless voice module with VoIP capability for both 1.9 GHz and 2.4 GHz bands

DECT FEATURES

- Call handling
 - Incoming/outgoing call: Both DTMF and pulse dial
 - Intercom: Between PP's via the FP
 - Conference call: Up to 4 PP's and external
 - Call forwarding: Transfer call between PP
 - Call back: If no reply on call forward
 - Page call: FP pages all PP's (PP locator)
- Line
 - Flash (Register recall): Optional short/long flash selection
 - Dial method DTMF/Pulse dial
 - Busy tone detection
 - Dial tone detection
 - Parallel off hook detection
- Caller Line ID
 - Call waiting at external line during intercom
 - Call waiting at external line during another external call:
 - Caller ID reception: Support for ETSI and Bellcore (CLIP Type 1 and type 2) and DTMF CLIP
 - Call Waiting Deluxe: CLIP type 2.5
 - Message waiting reception/voice mail
- Protocol
 - Manual registration
 - Auto-registration: By placing PP in FP cradle
 - Handsets per base station: 1 to 5 (on 2.4GHz only 4 active handsets)
 - Low rate data transfer:
 - Data call: 24 Kbit/s on the air-interface (one slot)
 - Dual slot diversity: 32 Kbit/s voice
 - Walkie Talkie: Both DECT and 2.4GHz
 - Broadcast from FP to PP
- Audio and tone
 - Tone generation: Melody generator with 3 polyphonic tones
 - Audio Volume control: 10 steps are adjustable
 - Tone Volume control: 10 steps are adjustable

VoIP FEATURES

- Power on self diagnostic
- Caller ID in either DTMF or FSK
- DTMF generation/detection
- Supports Voice Codec G.168, G.711, G.723.1, G.729A, G.729E, T.38
- Echo cancellation using G.165/G.168 up to 16ms
- Management functions
 - Signal level measurement
 - Jitter statistics
 - Lost packet counts
 - Alarm reporting
 - Test call without ringing the telephone set
- Configuration functions
 - Codec type
 - Echo cancellation (16 MAC and IP address)
 - Silence suppression & VAD
 - Gain control
 - Loop back testing
 - Keep alive intervals
 - A-law or u-law
 - Reconnect to redundant server
 - RTP/UDP for media streaming
 - FAX level
 - Rate and redundancy

SOFTWARE FEATURES

- 802.1d transparent bridge between RF and Ethernet
- UDP, IP, ARP, ICMP, DHCP, TFTP, SNMP, HTTP
- IP filtering based on source and destination addresses
- Baseline privacy based on DES and RSA encryption
- DHCP, TFTP and ToD clients with device auto configuration
- Support SNMP MIB-II
 - Ethernet-like
 - Bridge
 - RF Interface
 - Cable Device
- Baseline privacy Interface

POWER

- Input DP
- DC 12V
- Consumption
 - 3W (standby)
 - 8W (operation)

TELEPHONY

- Supervisory Voltage
- 48V dc nominal
- Maximum Loop Length
 - 1500 ft (457M) of 26 AWG (0.4 mm) wire
- Ringing Load Capacity
 - 5 REN per line
- Programmable Interface for Worldwide
 - Fax Support & Fax Relay over IP: T.38

MAX. NUMBER OF CPES

- 32 (32 MAC addresses)

FILTERING

- LLC: 16
- IP: 16

FREQUENCY SEARCH

- Frequency Cache
- 4 Entries Frequency
- Channel Plan
- 6 MHz step (DOCSIS)

LEDS

- Power, Cable, Status, Line1, Line2, Dual Light for DECT, LAN, USB (Optional)

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