

Cisco Model EPC2425 EuroDOCSIS 2.0 Wireless Residential Gateway with Embedded Digital Voice Adapter

The Cisco® Model EPC2425 EuroDOCSIS 2.0 Wireless Residential Gateway with Embedded Digital Voice Adapter (EPC2425) is a high performance home gateway that combines a cable modem, two-line digital voice adapter, router and wireless access point in a single device providing a cost-effective voice and networking solution for both the home and small office.

The EPC2425 has been designed to meet EuroPacketCable™ 1.5 and EuroDOCSIS™ 2.0 specifications. In addition, the EPC2425 is fully backward compatible for use on both EuroDOCSIS 1.1 and EuroDOCSIS 1.0 networks.

Figure 1. Model EPC2425 EuroDOCSIS 2.0 Wireless Residential Gateway with Embedded Digital Voice Adapter



Designed for the active digital home or office, the EPC2425's integrated router features a Dynamic Host Configuration Protocol (DHCP) server, Network Address and Port Translation (NAT/NAPT) and a Stateful Packet Inspection (SPI) firewall. These features allow the user to share a single high-speed public Internet connection as well as share files and folders between devices within the home network by attaching multiple wired and wireless devices in your home or office to the wireless residential gateway.

Consumer friendly features like Wireless Protected Setup (WPS) and user configured Parental Control can protect the home network from unwelcome intruders and family members from access to undesirable websites.

Features

- Compliant with EuroDOCSIS 2.0, 1.1, and 1.0 standards along with EuroPacketCable specifications to deliver high-end performance and reliability
- High performance broadband Internet connectivity to energize your online experience
- Two-line embedded digital voice adapter for wired telephony service
- Four 10/100BASE-T Ethernet ports to provide wired connectivity
- 802.11g Wireless Access Point with 4 service set identifiers (SSIDs)
- Wireless Protected Setup (WPS), including a push button switch to activate WPS for simplified and secure wireless setup
- Two RJ-11 telephony ports for connecting to in-home wiring or directly to conventional telephones or fax machines
- Dual antenna design one internal and one detachable external
- User configurable Parental Control blocks access to undesirable Internet sites
- Advanced firewall technology deters hackers and protects the home network from unauthorized access
- · Attractive compact design that allows for vertical, horizontal, or wall-mounted operation
- TR-068 compliant color-coded interface ports and corresponding cables simplify installation and setup
- DOCSIS-5 compliant LED labeling and behavior provides a user and technician friendly method to check operational status and act as a troubleshooting tool
- · Allows automatic software upgrades by your service provider

Figure 2. Model EPC2425 Front Panel (image may vary from actual product and specification)



Table 1. Front Panel Features

Feature	Description
Indicators	Power, DS, US, Online, Ethernet, Wireless Link, Wireless Setup, Tel1, Tel2
Color	Black, black lens, silver text
Branding	Cisco and model number

Figure 3. Model EPC2425 Back Panel (image may vary from actual product and specification)



Table 2. Back Panel Connections

Feature	Description	
Power Connector Color: Black	Connects the wireless home gateway to the DC output of the AC power adapter	
Power Switch	Turns power on and off to the device (power switch provided on all products carrying the CE mark)	
Telephone 1 and 2 Color: Gray	RJ-11 telephone ports connect to home telephone wiring and to conventional telephones or famachines	
Ethernet (1 – 4) Connector Color: Yellow	Four RJ-45 Ethernet ports connect to the Ethernet port on your PC or your home network	
Reboot EMTA	Power cycles the EMTA	
Wireless Setup	Activates Wi-Fi Protected Setup (WPS), which allows you to add wireless devices to the wireless network of the residential gateway	
Cable Connector Color: White	F-connector connects to an active cable signal from your service provider	
Antenna (not shown)	Provides a communication connection for the built-in WAP	

Product Specifications

 Table 3.
 Product Specifications

Specification	Value
Voice Specifications	
Voice Specifications Call Signaling Protocol	MGCP/NCS including configurable IPSec encryption Configurable to support RFC2833 event signaling Supports Bell103 detection: Improves alarm panel and Point of Sale (POS) interoperability by optimizing DSP for Bell103 protocol Software upgradeable to support Session Initiation Protocol (SIP) The following SIP standards are supported RFC 2617 HTTP Authentication: Basic and Digest Access Authentication RFC 2976 The SIP INFO Method RFC 3261 SIP: Session Initiation Protocol RFC 3262 Reliability of Provisional Responses in Session Initiation Protocol (SIP) RFC 3263 Session Initiation Protocol (SIP): Locating SIP Servers RFC 3264 An Offer/Answer Model with Session Description Protocol (SDP) RFC 3265 Session Initiation Protocol (SIP)-Specific Event Notification
	 RFC 3420 Internet Media Type message/sipfrag RFC 3428 Session Initiation Protocol (SIP) Extension for Instant Messaging RFC 3515 The Session Initiation Protocol (SIP) Refer Method RFC 3842 A Message Summary and Message Waiting Indication Event Package for the Session Initiation Protocol (SIP) RFC 3892 The Session Initiation Protocol (SIP) Referred-By Mechanism RFC 3903 Session Initiation Protocol (SIP) Extension for Event State Publication Draft-ietf-mmusic-sdp-new-24 SDP: Session Description Protocol (Replacement for RFC 2327) Draft-ietf-sipping-cc-transfer-01 Session Initiation Protocol Call Control – Transfer Draft-ietf-sip-session-timer-08 The SIP Session Timer Draft-ietf-sipping-realtimefax-01 SIP Support for Real-time Fax: Call Flow Examples and Best Current Practices Draft-ietf-mmusic-sdescription-09 Session Description Protocol Security Descriptions for Media Streams Draft-ietf-sip-replaces-02 The Session Initiation Protocol (SIP) "Replaces" Header
Provisioning Modes	 Full PacketCable secure provisioning Kerberos support with NVRAM ticket caching Configurable PacketCable-lite (MTA config file provisioning without security) Configurable for non-PacketCable (MTA configuration using DOCSIS config file)
CODECs	Standard: G.711, T.38 Fax Relay, iLBC and BV16 Software upgradeable to support other CODEC combinations including: G.711 and G.728 G.711 and G.729 G.711 and G.729 a/e G.711 and BV16 and BV32 (High fidelity – near CD quality) G.711 and G.723 G.711 and G.726
CODEC Packetization Intervals	10, 20, and 30 mS
CODEC Synchronization	CODEC synchronization to UGS time clock allows slip-free end-to-end sync to PSTN clock (minimizes frame slips that can cause Fax/Analog Modem call failures)
CODEC Encryption	Configurable to support AES-128 encryption or no encryption modes
Hearing Impaired Services Support	TDD support including detection of V.18 including Annex A
Fax and Analog Modem support	DSP based Modem/Fax Tone detection and support for Voice Band Data Mode with auto-CODEC negotiation and auto-control of echo canceller, jitter buffer, and VAD
Jitter Buffer Support	Adaptive dynamically controlled
Latency Control	Configurable min / max jitter buffer size

Specification	Value	
Voice Specifications		
Audio Gain Levels	Independently Configurable Tx and Rx audio gains	
Silence Suppression	Configurable VAD with comfort noise generation	
Packet Loss Concealment	ANSI T1.521-1999	
Call Connection Quality Monitoring	RTCP, RFC1889, RFC1890, SNMP MIB for last call quality statistics	
Dialing Modes	DTMF and configurable pulse dial support	
DTMF Relay	RFC2833 including fast (40mS) DTMF Relay for alarm system signaling compatibility	
Layer 2 Quality of Service	Full PacketCable secure DQOS with GateID including UGS and UGS/AD DQOS Lite support including UGS and UGS/AD	
Layer 3 Quality of Service	Configurable DiffServe/TOS support for Signaling, RTP, and RTCP flows	
Payload Header Suppression (PHS)	Supported for RTP and RTCP packet flows to reduce per-call network bandwidth. Advanced support for Dynamic Payload Header Suppression using Propane Technology.	
Management	SNMPv3, SNMPv2, Telnet with configurable user ID and password, internal log, and external Syslog support	
Echo Cancellation	G.168 with extended echo tail support	
Call Feature Support	 Caller ID Call Waiting with Caller ID Cancel Call Waiting Call Conferencing (3-way calls) Configurable hook flash support Distinctive Ringing (Configurable for up to 11 ring patterns per phone line) Ring Splash Stutter Dial Tone Off hook warning tone Open Switch Interval support to enhance answering machine compatibility Configurable star codes Euro/US hook-flash type Call transfer Message Waiting Indicator Warm Line Call Forwarding Unconditional Call Forwarding on Busy Call Forwarding No Answer Call return Redial Call Automatic redial Other call features available with compliant CMS or gateway 	
Telephone Ring Loading	Full 5 REN support on each phone line (10 REN total)	
Ring Signal	Configurable balanced ring with configurable DC offset	
Max Phone Line Distance	Supports up to 1000 ft of AWG26 wire (0.4mm) on each phone line. Supports operation with typical in-home telephone wiring	
Country-Specific Telephone Parameters Supported	United States,United Kingdom, Germany, France, Belgium, Netherlands, Finland, Italy, Switzerland, Sweden, Denmark, Brazil, ETSI 101 909-18	
RF Downstream		
Frequency Range	108 to 930 MHz	
Demodulation	64 or 256 QAM	
Maximum Data Rate	41.4 Mbps for 64 QAM 55.2 Mbps for 256 QAM	
Bandwidth	8 MHz	
Operating Level Range	43 to 73 dBμV for 64 QAM 47 to 77 dBμV for 256 QAM	
Input Impedance	75 ohms	

Specification	Value
RF Upstream	
Frequency Range	5 to 65 MHz
Modulation	QPSK 8 QAM 16 QAM 64 QAM 128 QAM TCM
Maximum Data Rate	5.12 Mbps for QPSK 10.2 Mbps for 16 QAM 30.0 Mbps for A-TDMA and SCDMA
Bandwidth	200 kHz to 6.4 MHz
Operating Level Range (all values +/- 0.5 dBμV) TDMA	QPSK +68 to +118 dBμV 8QAM +68 to +115 dBμV 16QAM +68 to +115 dBμV 32QAM +68 to +114 dBμV 64QAM +68 to +114 dBμV
SCDMA	QPSK +68 to +113 dBµV 8QAM +68 to +113 dBµV 16QAM +68 to +113 dBµV 32QAM +68 to +113 dBµV 64QAM +68 to +113 dBµV 128QAM +68 to +113 dBµV
Output Impedance	75 ohms
Wireless Access Point	
Frequency Range	2.412~2.472 GHz, 13 Channel (Europe; CE/ETSI)
Modulation	DSSS (Direct Sequence Spread Spectrum)
Data Rate: 802.11g	54 Mbps with Auto Fall-Back
Security	WPA2, WPA and 64/128-bit WEP
Transmit Power	14 dBm (typical for 802.11g)
Antenna System	One (1) external, detachable One (1) internal
Other	
Input Voltage	12 VDC
Power Consumption (Modem Module)	6 watts
Data Ports	Ethernet 10/100BASE-T (Auto-sensing with Auto-MDIX) RJ-45 Ethernet (4)
RF	Female "F" type
Mechanical	
Dimensions (W x D x H) (approximate)	Not including "F" connector: 17.7 cm x 14.5 cm x 5.0 cm (6 15/16 in. x 5 11/16 in. x 2 15/16 in.) Including "F" connector and wireless antenna: 17.7 cm x 15.5 cm x 5.0 cm (6 15/16 in. x 6 in. x 2 15/16 in.)
Weight (approximate)	0.39 kg (13.7 oz)
Operating Temperature	0° to 40°C (32° to 104°F)
Operating Humidity	0 to 90% RH non-condensing
Storage Temperature	-20° to 60°C (-4° to 140°F)
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Specification	Value		
Standards and Approvals			
Designed to Comply with the Following Standards	Euro-PacketCable 1.5 EuroDOCSIS 2.0, EuroDOCSIS 1.1, EuroDOCSIS 1.0 IEEE 802.11g WEP, WPA, and WPA2 WMM, WPS		
Regulatory and Safety Approvals	As required per country where the EPC2425 will be used		

Ordering Information

 Table 4.
 Ordering Information

Model	Description	Part Number
International Configura	ation - PAL/NTSC	
Model EPC2425	EPC2425 EuroDOCSIS 2.0 Wireless Residential Gateway with Embedded Digital Voice Adapter. Includes:	4027678
	International tuning plan	
	• 230 VAC / 50 Hz, 15 VDC / 1 A desk top linear power supply, Europe	
	Ethernet cable	
	CD-ROM containing user guide	
	Europe	
Model EPC2425	EPC2425 EuroDOCSIS 2.0 Wireless Residential Gateway with Embedded Digital Voice Adapter. Includes:	4028605
	North American tuning plan	
	100-240 VAC / 50-60 Hz, 15 VDC / 1 A wall-mount switching regulated power supply, Europe	
	Ethernet cable	
	CD-ROM containing user guide	
	Europe (Customer-specific configuration)	
Model EPC2425	EPC2425 EuroDOCSIS 2.0 Wireless Residential Gateway with Embedded Digital Voice Adapter. Includes:	4030556
	North American tuning plan	
	 100-240 VAC / 50-60 Hz, 15 VDC / 1 A wall-mount switching regulated power supply, Europe 	
	Ethernet cable	
	CD-ROM containing user guide	
	Europe (Customer-specific configuration)	
Model EPC2425	EPC2425 EuroDOCSIS 2.0 Wireless Residential Gateway with Embedded Digital Voice Adapter. Includes:	4030557
	North American tuning plan	
	100-240 VAC / 50-60 Hz, 15 VDC / 1 A wall-mount switching regulated power supply, Europe	
	Ethernet cable	
	CD-ROM containing user guide	
	Europe (Customer-specific configuration)	
Model EPC2425	EPC2425 EuroDOCSIS 2.0 Wireless Residential Gateway with Embedded Digital Voice Adapter. Includes:	4028604
	North American tuning plan	
	230 VAC / 50-60 Hz, 15 VDC / 1 A wall-mount linear switching power supply, Europe	
	Ethernet cable	
	CD-ROM containing user guide	
	Sweden (Customer-specific configuration)	

Replacement Components

Table 5. Replacement Components

Description	Part Number	
Power Supplies		
Class 2 Linear Switching		
230-240 VAC / 50-60 Hz, 12 VDC /1 A wall-mount linear switching power supply with Euro style connector	4020995	
Class 2 Switching Regulated		
100-240 VAC / 50-60 Hz, 12 VDC /1 A wall-mount linear switching power supply with Euro style connector	4022057	
CD-ROM		
CD-ROM with User Guide	7016771	



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