

CISCO EPC3928S

BROADBAND CABLE GATEWAY WITH VOICE

The Technicolor EPC3928S residential wireless cable gateway with digital voice is a high-performance home gateway that combines a cable modem, digital voice adapter, router, and single-band concurrent IEEE 802.11n 2.4 GHz wireless access points in a single device, providing a cost-effective voice and networking solution for both the home and small office.



FEATURES

- EuroDOCSIS® 3.0 compliant
- Backward compatible with EuroDOCSIS® 2.0 (and older)
- 8 bonded downstream and up to 4 bonded upstream channels
- Full band capture tuner
- Built-in RF spectrum analyzer
- 4x GE LAN ports
- Wireless networking on-board, IEEE 802.11n 2.4 GHz (2x2)
- 1x FXS port for phone or fax
- Voice EuroPacketCable™ 1.5 compliant
- 1 highspeed USB 2.0 master port
- TR-069 remote management
- IPv4 & IPv6 enabled
- Designed to meet the latest ECO standards

PACKAGE CONTENTS



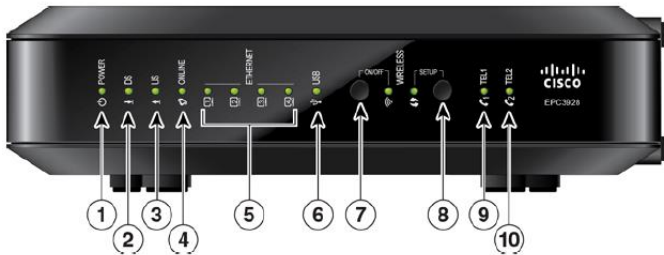
- EPC3928 Cable Gateway
- Power Supply
- Ethernet Cable



POWER SUPPLY

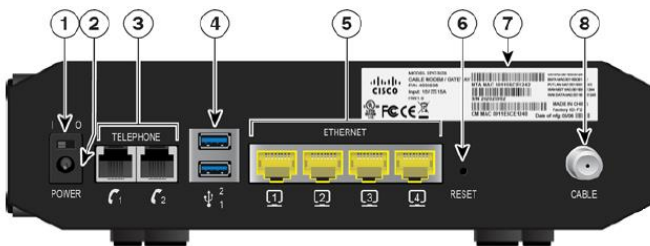
- 15 V DC
- 1.5 A
- 22.5 W

FRONT PANEL



- 1 POWER—ON
- 2 DS—ON
- 3 US—ON
- 4 ONLINE—ON
- 5 ETHERNET PORTS 1 - 4—ON
- 6 USB—ON
- 7 WIRELESS ON/OFF
- 8 WIRELESS SETUP
- 9 TEL1—ON
- 10 TEL2—ON

BACK PANEL



- 1 ON/OFF SWITCH
- 2 POWER JACK
- 3 TELEPHONE PORTS 1 & 2
- 4 USB (Optional)
- 5 4 ETHERNET PORTS
- 6 RESET
- 7 MAC ADDRESS LABEL
- 8 CABLE CONNECTOR

SPECIFICATIONS

HARDWARE	
Interfaces WAN	1 F-type connector, external threaded
Interfaces LAN	4-port autosensing 10/100/1000 Base-T Ethernet LAN switch 1 USB 2.0 master port IEEE 802.11n 2.4 GHz radio
Buttons	Wi-Fi on/.off button WPS button Reset button Power button
Dimensions	196 x 54 x 145 mm (7.72 x 2.13 x 5.71 in.)
Power Supply	15 VDC external PSU
AC Voltage	100 - 240 VAC (switched mode power supply)
Operating temperature	0° - 40 °C (32 - 104 °F)
Operating Humidity	0 - 95 % RH non-condensing
CERTIFICATIONS	
Data	DOCSIS 3.0 compliant
Voice	EuroPacketCable™ 1.5 compliant
CMTS Interoperability	Any qualified EuroDOCSIS® / DOCSIS® CMTS
RF DOWNSTREAM	
Downstream Modulation	64, 256 QAM
Downstream Frequency Range	Operating 108 - 1002 MHz
Tuner	108 - 1002 MHz
Maximum downstream rates	445.0 Mbps (theoretical, 8 x 55.62 Mbps)
Capture Windows	Full Band Capture (possibility to have any of the downstream channels over the full EuroDOCSIS spectrum)
No. of Downstream Channels	Up to 8 bonded
Input Signal Level Range	-15 dBmV - +15 dBmV

VOICE AND TELEPHONY	
Audio codecs	G.711 iLBC BV16 G.728, G.729, G.723, G.726 (optional) BV32 (optional)
Multi-line phone support	2 phone lines 3-party conference calls Supports two complex voice codecs simultaneously
Fax relay	T.38
DTMF tone relay	RFC 2833
CLASS features	Basic and extended CLASS features
Echo cancellation	G.168 up to 32 ms
Modems	V.17, V.29
Pulse dialing	DTMF/pulse tones Pulse/DTMF tones conversion
RTPlayer	RFC 1889 RFC 1890
EuroPacketCable protocols	PacketCable NCS Network-based call signalling protocol (PKT-SP-EC-MGCP)
SIP protocol	By software upgrade
Packet tone	DTMF generation Call progress generation Custom tone generation
MANAGEMENT	
User-friendly GUI via http	
Web-based user interface management and administration	
Telnet, SSH	
Logging and alert	
TR-069 CPE WAN Management Protocol (CWMP)	TR-098 Internet Gateway Device (IGD) data model subset (optional)
SNMP management	SNMP v1, SNMP v2, SNMP v3
SOFTWARE	
Security	Baseline Privacy Interface Plus (BPI+)
Multiple client support	254
Class of Services	32 DSIDs and 32 Service Flows
NETWORKING	
Network Protocol	IP (IPv4, IPv6 DS-Lite) TCP, UDP ARP, ICMP, DHCP TFTP, SNMP, HTTP
RF UPSTREAM	
Upstream Modulation	QPSK 8 QAM, 16 QAM, 32 QAM, 64 QAM/ATDMA, 128 QAM/SCDMA
Upstream Frequency Range	5 - 65 MHz (5 - 85 MHz optional)
Max. Upstream Data Rates	131.1 Mbps (theoretical, 4 x 32.78 Mbps)
Number of Upstream Channels	4 bonded
Channel Bandwidth	200, 400, 800 kHz 1.6, 3.2 and 6.4 MHz
Output Impedance	75 Ohm
WIRELESS	
Single band concurrent Wi-Fi access points, Wi-Fi certified® 2.4 GHz (2x2) IEEE 802.11n AP Up to 8 BSSIDs (virtual AP) support per radio interface	
Wi-Fi security levels	IEEE802.1x port-based authentication with RADIUS client WPA2™-Enterprise / WPA™-Enterprise WPA2™-Personal / WPA™-Personal
2x2 MIMO 2.4 GHz Wi-Fi features	SGi STBC 20/40 MHz coexistence
SERVICES	
Wireless hotspot	Static DHCP IP Scope over tunnel
Parental control	URL- and (optional) content-based website filtering Per-user policies Keyword blocking Domain name blocking Time of day filters MAC address filtering