

TECHNICOLOR EPC3940

BROADBAND CABLE GATEWAY WITH VOICE

The Technicolor EPC3940 residential wireless cable gateway with digital voice is a high-performance home gateway that combines a cable modem, two-line digital voice adapter, router, and IEEE 802.11n and IEEE 802.11ac wireless access points in a single device, providing a cost-effective voice and networking solution for both the home and small office.



- EuroDOCSIS 3.0 certified
- Dual mode DOCSIS/EuroDOCSIS
- Backward compatible with (Euro)DOCSIS 2.0 (and older)
- 16 bonded downstream and 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), IEEE 802.11ac 5 GHz (3x3)
- 2x FXS ports for phone or fax
- Voice EuroPacketCable 1.5 compliant
- 1x highspeed USB 2.0 master port
- Seamless media sharing (UPnP AV)
- Future-proof full service platform
- Advanced security features
- TR-069 remote management
- IPv4 and IPv6 DS-Lite support
- Designed to meet the latest ECO standards



PACKAGE CONTENTS

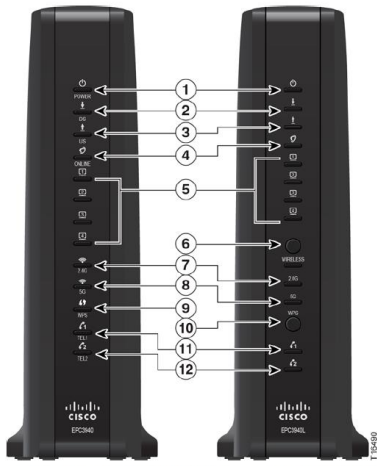
- EPC3940 Gateway
- Power Supply
- Ethernet Cable

POWER SUPPLY

- 12 V DC
- 3 A
- 36 W



FRONT PANEL

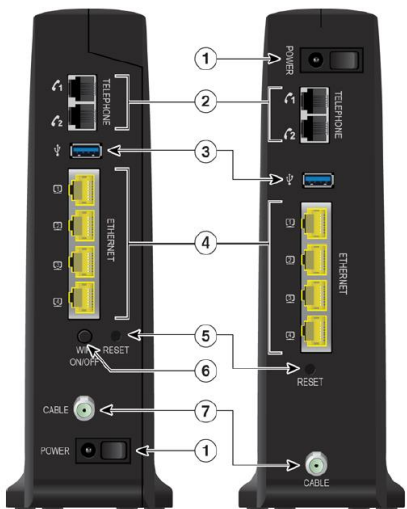


Gateway Model EPC3940 (left) and Gateway Model EPC3940L (right)

- 1 POWER—ON
- 2 DS—ON
- 3 US—ON
- 4 ONLINE—ON
- 5 1-4—ON
- 6 WIRELESS ON/OFF Button (model EPC3940L only)
- 7 2.4G—ON
- 8 5G—ON
- 9 WPS (model EPC3940 only)—OFF
- 10 WPS Button (model EPC3940L only)
- 11 TEL1—ON
- 12 TEL2—ON

Note: The WPS button is on the top panel of model EPC3940. For more information, see Top Panel Description (on page 6).

BACK PANEL

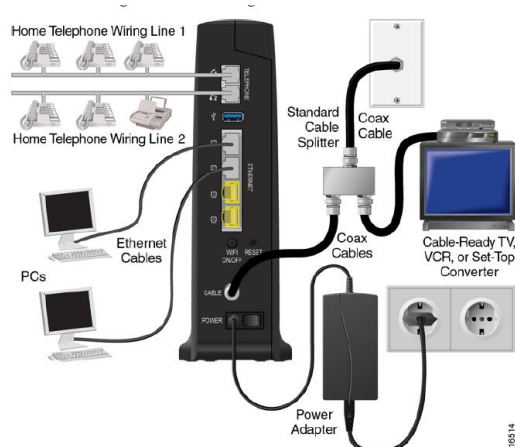


Gateway Model EPC3940 (left) and Gateway Model EPC3940L (right)

- 1 POWER and ON/OFF Switch
- 2 TELEPHONE 1 and 2—RJ-11
- 3 USB (Optional for some models)
- 4 ETHERNET—Four RJ-45 Ethernet ports
- 5 RESET
- 6 WIFI ON/OFF (model EPC3940)
- 7 CABLE—F-connector

CAUTION:
The RESET button is for maintenance purposes only. Do not use unless instructed to do so by your service provider. Doing so may cause you to lose any settings you have selected.

CONNECTION EXAMPLE



T18514

SPECIFICATIONS

HARDWARE	
Interfaces WAN	1 F-type connector, external threaded
Interfaces LAN	4-port autosensing 10/100/1000 Base-T Ethernet LAN switch 2 FXS POTS ports 1 USB 2.0 master port IEEE 802.11n 2.4 GHz IEEE 802.11ac 5 GHz
Buttons	WPS button Reset button Power button
Power input	DC jack
Power supply	12 VDC external PSU
AC voltage	100 - 240 VAC (switched mode power supply)
Dimensions	227 x 68 x 205 mm (8.94 x 2.72 x 8.07 in.)
Operating temperature	0° - 40° C (32° - 104° F)
Operating humidity	0 % - 95 % RH non-condensing
Storage temperature	-20° - 70° C (-4° - 158° F)
CERTIFICATIONS	
Data	EuroDOCSIS® 3.0 certified
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 88 - 1002 MHz
Number of downstream channels	Up to 16
Maximum downstream data range	889.9 Mbps (theoretical 55.62 Mbps x 16 channels)
Capture windows	Full Band Capture (possibility to have any of the downstream channels over the full EuroDOCSIS spectrum)
Input signal level range	-15 dBmV / + 15 dBmV
Input impedance	75 Ohm
RF UPSTREAM	
Upstream modulation	QPSK 8, 16, 32, 64 and 128 QAM
Upstream frequency range	5 - 65 MHz
Number of upstream channels	4
Maximum upstream data range	122.9 Mbps (theoretical 30.72 Mbps x 4 channels)
Channel bandwidth	1.6, 3.2 and 6.4 MHz
Output impedance	75 Ohm
WIRELESS	
Full dual band concurrent Wi-Fi access points, Wi-Fi certified®	<ul style="list-style-type: none"> • 2.4 GHz (2x2) IEEE 802.11n AP • 5 GHz (3x3) IEEE 802.11ac AP
Wi-Fi Protected Setup (WPS™)	
Wi-Fi security levels	<ul style="list-style-type: none"> • IEEE802.1x port-based authentication with RADIUS client • WPA2™-Enterprise / WPA™-Enterprise • WPA2™-Personal / WPA™-Personal
Wi-Fi Multimedia (WMM®) and WMM-Power Save	
„Up to 8 BSSIDs (virtual AP) support per radio interface	
Wireless hotspot capabilities	
2x2 MIMO 2.4 GHz Wi-Fi features	SGi STBC 20/40 MHz coexistence
3x3 MIMO 5 GHz Wi-Fi features	SGi STBC 20/40/80 MHz mode
RX/TX switched diversity	
Dynamic rate switching for optimal wireless performance	
Manual/auto radio channel selection	

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
Caller ID	Type I and Type II
CLASS features	Basic and extended CLASS features
Voice Activity Detection (VAD)	
Comfort Noise Generation (CNG)	
Echo cancellation	G.168 up to 32 ms
Packet tone	DTMF generation Call progress generation Custom tone generation
Call discrimination	Fax and modem detection
Telephony interface capabilities	Loopback and on-demand diagnostics
Modems	Up to V.90 (38.5 kbps)
REN	5 REN (per FXS)
Pulse dialing	DTMF/pulse tones Pulse/DTMF tones conversion
RTP layer	RFC 1889 RFC 1890
RTCP statistics collection	
EuroPacketCable protocols	PacketCable™ NCS Network-based call signalling protocol (PKT-SP-EC-MGCP)
SIP protocol	By software upgrade
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 v2, SNMP v3
HNAP server 1.2+	
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
Content sharing	Server Message Block (SMB) Samba file server UPnP A/V™ media server
HDD file systems	FAT32, NTFS EXT2, EXT3, EXT4 HFS+
NETWORKING	
Network protocol	IP (IPv4, IPv6 DS-Lite) TCP, UDP ARP, ICMP, DHCP TFTP, SNMP, HTTP
Protocol filtering	Ethernet and IP
SECURITY	
Stateful Packet Inspection Firewall (SPIF)	
Customizable firewall security levels	
Intrusion detection and prevention (DoS, SYN Flood, Ping of Death)	
Security and service segregation per SSID	

SOFTWARE

Downloadable software

Multiple client support

254

Class of Services

32 DSIDs and 32 Service Flows

Security

BPI+

HTTP server

ECO DESIGN

Power control features

Ability to turn off any or all modules

Slow down or turn off processors

Turn on or turn off external interfaces

Dynamic power consumption reduction

PACKAGE CONTENTS

EPC3940

Ethernet cable (RJ-45)

Power supply unit

Quick Setup leaflet (optional)

Safety Instructions & Regulatory Notices booklet