

Model EPC2100™ WebSTAR™ Cable Modem

Description

The EPC2100™ WebSTAR™ Cable Modem provides Euro-DOCSIS® broadband network operators with a cost-effective solution for delivering standards-based, high-speed data services to their subscribers.

The EPC2100 also features Dual Mode. This feature allows the network operator to deploy the EPC2100 in networks with 8 MHz channel spacing that use DOCSIS downstream technology.

The EPC2100 features WebWizard, a browser-based user interface. WebWizard is a powerful tool that facilitates installation and troubleshooting, and eliminates the need to load set-up software on the Customer Premises Equipment (CPE). The EPC2100 also features five front-panel LEDs that provide visual feedback of real-time data transmission and operational status.



Cable Modem Access Protection

The EPC2100 features Cable Modem Access Protection. When enabled, this feature blocks network side access to the CPE. This software-based "standby switch" provides the user with the ability to disable the Ethernet and USB data communications when their computers are not in use, which reduces the risk of unauthorized "hacking" into the CPE. This quick and simple "off" mechanism is used instead of physically disconnecting cables. Cable Modem Access Protection can be activated manually at any time or activated automatically after a user-selected period of CPE inactivity. In the automatic mode, normal operation is quickly restored without the loss of any packets when outbound CPE activity is detected by the modem.

Features

- Designed to meet Euro-DOCSIS 2.0 specifications
- Backward compatible with existing Euro-DOCSIS 1.1 and 1.0 networks
- Attractive new compact design
- Bridged 10/100BaseT Ethernet port with Auto-MDIX and a USB port to facilitate quick connectivity to CPE for high-speed data service
- Dual Mode support for Euro-DOCSIS and DOCSIS operation
- Enhanced bi-directional performance maximizes data throughput
- Rugged electronic components for long-term reliability
- Support for up to 64 users (1 USB port user and up to 63 users on user-supplied Ethernet hubs)
- USB drivers for Windows 98SE, ME, 2000, and XP
- Support for Broadcom's Propane packet header suppression for improved upstream data throughput
- Software upgradeable by network download
- Remote manageability using SNMP V1/V2 and V3
- CD-ROM containing user's guide and USB driver installation software
- Both vertical and horizontal installation options



Specifications

| | |
|----------------------------------|---|
| RF Downstream | |
| Frequency Range | 108 MHz to 862 MHz |
| Demodulation | 64 QAM or 256 QAM |
| Maximum Data Rate | 41.4 Mbps (for 64 QAM) and 55.2 Mbps (for 256 QAM) |
| Bandwidth | 8 MHz |
| Operating Level Range | 43 to 73 dBuV for 64QAM 47 to 77 dBuV for 256 QAM |
| Input Impedance | 75 ohms |
| RF Upstream | |
| Frequency Range | 5 MHz to 65 MHz |
| Modulation | QPSK 16 QAM 64 QAM ATDMA 128 QAM SCDMA |
| Maximum Data Rate | 5.12 Mbps (for QPSK) 10.2 Mbps (for 16 QAM) 30.0 Mbps (for ATDMA or SCDMA) |
| Bandwidth | 200 kHz to 6.4 MHz |
| Operating Level Range | +68 dBuV to +118 dBuV (QPSK) +68 to +115 dBuV (8QAM, 16QAM) +68 to +114 dBuV (32QAM, 64QAM) |
| Output Impedance | 75 ohms |
| Electrical | |
| Input Voltage | 12 VDC |
| Power Consumption (modem module) | 6 Watts |
| Data Ports | Ethernet 10/100BaseT (Auto-sensing with Auto-MDIX): RJ-45 Ethernet (1) USB: Type B (1) |
| RF | Female "F" type |
| Mechanical | |
| Dimensions (H x D x W) | 13.3 cm x 10.3 cm x 3.3 cm (5.25 in. x 4.00 in. x 1.5 in.) |
| Weight (approximate) | 0.26 kg (9.0 oz) |
| Operating Temperature | 0°C to 40°C (32°F to 104°F) |
| Operating Humidity | 0 to 90% RH non-condensing |
| Storage Temperature | -20°C to 70°C (-4°F to 158°F) |

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| Standards Compliance | |
| Designed to comply with the following standards | Euro-DOCSIS 2.0 |
| Other Approvals | WHQL |
| Regulatory Compliance | |
| Regulatory approvals | Certified as required per country where the EPC2100 will be used |

Ordering Information

Contact your Sales Representative for product availability in your area.

| Description | Part Number |
|---|-------------|
| EPC2100 WebSTAR Cable Modem for Europe. Includes: <ul style="list-style-type: none"> • Euro-DOCSIS 2.0, Hardware Rev 2.0 • 230 VAC / 50 Hz In-line power supply with attached power cord with 2-pin connector for continental Europe • Ethernet and USB cables • CD-ROM containing user's guide and USB driver | 4008147 |
| EPC2100 WebSTAR Cable Modem for Europe. Includes: <ul style="list-style-type: none"> • Euro-DOCSIS 2.0, Hardware Rev 1.0 • 230 VAC / 50 Hz In-line power supply with attached power cord with 2-pin connector for continental Europe • Ethernet and USB cables • CD-ROM containing user's guide and USB driver | 4004525 |
| EPC2100 WebSTAR Cable Modem for the United Kingdom. Includes: <ul style="list-style-type: none"> • Euro-DOCSIS 2.0, Hardware Rev 2.0 • 230 VAC +/-15% / 50 Hz In-line power supply with attached power cord with 3-pin connector for the United Kingdom • Ethernet and USB cables • CD-ROM containing user's guide and USB driver | 4008148 |
| EPC2100 WebSTAR Cable Modem for the United Kingdom. Includes: <ul style="list-style-type: none"> • Euro-DOCSIS 2.0, Hardware Rev 1.0 • 230 VAC +/-15% / 50 Hz In-line power supply with attached power cord with 3-pin connector for the United Kingdom • Ethernet and USB cables • CD-ROM containing user's guide and USB driver | 4004526 |
| EPC2100 WebSTAR Cable Modem with Universal Power Supply. Includes: <ul style="list-style-type: none"> • Euro-DOCSIS 2.0, Hardware Rev 2.0 • 100-240 VAC / 50-60 Hz, 12 VDC / 1A In-line universal power supply (order power cord separately) • Ethernet and USB cables • CD-ROM containing user's guide and USB driver | 4008265 |
| EPC2100 WebSTAR Cable Modem with Universal Power Supply. Includes: <ul style="list-style-type: none"> • Euro-DOCSIS 2.0, Hardware Rev 1.0 • 100-240 VAC / 50-60 Hz, 12 VDC / 1A In-line universal power supply (order power cord separately) • Ethernet and USB cables • CD-ROM containing user's guide and USB driver | 4006871 |

| Replacement Components | Part Number |
|--|-------------|
| 110 VAC / 60 Hz, 12 VDC / 1A In-Line linear power supply for North America | 749826 |
| 100-240 VAC / 50-60 Hz, 12 VDC / 1A In-line universal power supply (order power cord separately) | 749825 |
| 100 VAC / 50-60 Hz, 12 VDC / 1A In-Line linear power supply for Japan | 749937 |
| 230 VAC / 50 Hz, 12 VDC / 1A In-Line linear power supply with 2-pin connector for continental Europe | 4002193 |
| 230 VAC +/-15% / 50Hz, 12 VDC / 1A In-Line linear power supply with 3-pin connector for the United Kingdom | 4004768 |
| 220 VAC / 60 Hz, 12 VDC / 1A In-Line linear power supply with 2-pin style connector for Korea | 4004222 |
| Ethernet Cable | 740580 |
| USB Cable | 740579 |
| CD-ROM with user's guide and USB drivers | 749995 |



Ordering Information (continued)

| Universal In-Line Power Supply Cords | Part Number |
|---|-------------|
| North America, Caribbean, Philippines, Mexico and some areas of South America | 740338 |
| Africa, Hong Kong, Ireland, and United Kingdom | 740339 |
| Europe, Middle East, Asia, and some areas of Africa and South America | 740562 |
| Australia, New Zealand, Fiji and mainland China | 740563 |
| Argentina | 4003938 |
| Chile | 4003340 |
| Korea | 745160 |
| Japan | 745161 |
| China and Columbia | 745415 |



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