

Model DPX100 DOCSIS WebSTAR™ Cable Modem

Description

The WebSTAR™ DPX100 Cable Modem provides DOCSIS broadband network operators with a cost-effective solution for delivering standards-based, high-speed data services to their subscribers.

Key features include the following:

- DOCSIS 1.1 and 1.0 certification by CableLabs to meet interoperability and reliability standards for DOCSIS-compliant networks
- Both a 10/100BaseT Ethernet port and a USB port to facilitate quick connectivity to Customer Premise Equipment (CPE) for high-speed data service
- Factory installed Digital Certificates that facilitate the online upgrade of DOCSIS 1.0-certified WebSTAR modems to DOCSIS 1.1 capability—a quick and simple network download that reduces upgrade costs and complexity

WebWizard

To facilitate setup and troubleshooting, the DPX100 includes WebWizard, a browser-based online status indicator. WebWizard verifies setup and troubleshooting results and eliminates the need to load additional setup software on the CPE. In addition, four LEDs provide visual feedback of real-time data transmission and operating status.

Cable Modem Access Protection

The DPX100 reduces the risk of unauthorized "hacking" into the CPE by blocking transmissions from the Web to the CPE. This cable modem access protection can be activated two ways. The end-user can manually activate a software-based "standby switch," which disconnects the Ethernet and USB data communications. Or the end-user can select the automatic mode and let the DPX100 block transmissions from the Web whenever the CPE is idle for a user-specified amount of time. Then when the DPX100 detects outbound CPE activity, it quickly restores normal operation without the loss of any packets.

Features

- CableLabs DOCSIS 1.1 and 1.0 certification
- Factory installed Digital Certificates
- Enhanced Bi-Directional Performance for reliable data throughput
- Rugged electronic components for long-term performance
- WebWizard status indicator to verify setup and troubleshooting results
- Software-controlled Cable Modem Access Protection with user-configurable options
- WHQL approved Windows USB drivers (including Windows XP)



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Features, *continued*

- Support for up to 32 users (1 USB port user and up to 31 users on user-supplied Ethernet hubs)
- Software upgradeable by network download
- Ethernet 10/100BaseT and USB-bridged data ports
- Remote manageability via SNMP protocols
- CD-ROM containing user guide and USB driver installation software
- Vertical or horizontal installation options

Specifications

RF Downstream	
Frequency Range	88 MHz to 860 MHz
Demodulation	64 QAM or 256 QAM
Maximum Data Rate	30 Mbps (for 64 QAM) and 43 Mbps (for 256 QAM)
Bandwidth	6 MHz
Operating Level Range	-15 dBmV to +15 dBmV
Input Impedance	75 ohms

RF Upstream	
Frequency Range	5 MHz to 42 MHz
Modulation	16 QAM, or QPSK
Maximum Data Rate	10.2 Mbps (for 16 QAM) 5.12 Mbps (for QPSK)
Bandwidth	200 kHz to 3.2 MHz
Operating Level Range	+8 dBmV to +58 dBmV
Output Impedance	75 ohms

Electrical	
Input Voltage	110 VAC, 60 Hz (North America) 100-240 VAC, 50-60 Hz (Universal Power Supply)
Power Consumption (modem module)	6 Watts
Data Ports: Ethernet 10/100BaseT (auto sensing) USB	RJ-45 Ethernet (1) USB Slave (1)
RF	Female "F" type

Mechanical	
Dimensions (H x D x W)	6.88 in. x 5.13 in. x 2.0 in. (17.1 cm x 13 cm x 5 cm)
Weight (approximate)	12.8 oz (0.36 kg)
Operating Temperature	32°F to 104°F (0°C to 40°C)
Operating Humidity	0 to 90% RH non-condensing
Storage Temperature	-4°F to 158°F (-20°C to 70°C)

Standards Compliance and Compatibility:

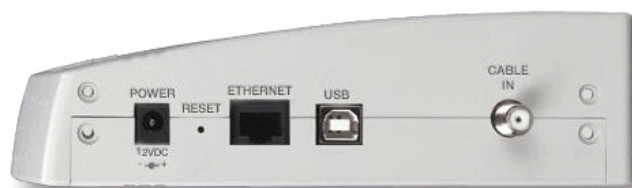
The DPX100 is compatible with the following industry standards:

- DOCSIS 1.0 and DOCSIS 1.1
- WHQL approved USB driver

Regulatory Compliance:

UL, CUL, FCC B, and CE (as required per country where the DPX100 will be used)

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Consumers can self-install the WebSTAR Cable Modem either horizontally or vertically, and then simply connect it to the CATV cable and PC Ethernet or USB ports to suit their individual needs.

Ordering Information for:

DOCSIS 1.0 Modems

Part Number	Model Number	Description
749874	DPX100	DOCSIS WebSTAR Cable Modem for North American NTSC systems. Includes: <ul style="list-style-type: none"> • DOCSIS 1.0 certification • 110 volt, 60 Hz In-Line Power Supply with attached power cord • Ethernet and USB cables • CD-ROM containing user's guide and USB driver
749952	DPX100	DOCSIS WebSTAR Cable Modem for NTSC Systems (Except Japan). Includes: <ul style="list-style-type: none"> • DOCSIS 1.0 certification • 100-240 VAC, 50-60 Hz Universal Power Supply • Power cord (shipped separately), specify from list below • Ethernet and USB cables • CD-ROM containing user's guide and USB driver
749985	DPX100	DOCSIS WebSTAR Cable Modem in Retail Packaging for North American NTSC systems. Includes: <ul style="list-style-type: none"> • DOCSIS 1.0 certification • 110 volt, 60 Hz In-Line Power Supply with attached power cord • Ethernet and USB cables • CD-ROM containing user's guide and USB driver
749875	DPX100	DOCSIS WebSTAR Cable Modem for PAL system. Includes: <ul style="list-style-type: none"> • DOCSIS 1.0 certification (Universal frequency plan) • 100-240 VAC, 50-60 Hz Universal Power Supply • Power cord (shipped separately), specify from list below • Ethernet and USB cables • CD-ROM containing multiple language user's guide and USB driver
749930	DPX100	DOCSIS WebSTAR Cable Modem for Japanese NTSC systems. Includes: <ul style="list-style-type: none"> • DOCSIS 1.0 certification (Japanese frequency plan) • 100-120 VAC, 50-60 Hz Switched Power Supply • Ethernet cable only • Japanese language user's guide

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Ordering Information for:

DOCSIS 1.1 Modems

Part Number	Model Number	Description
752079	DPX100	DOCSIS WebSTAR Cable Modem for North American NTSC systems. Includes: <ul style="list-style-type: none"> • DOCSIS 1.1 certification • 110 volt, 60 Hz In-Line Power Supply with attached power cord • Ethernet and USB cables • CD-ROM containing user's guide and USB driver
752080	DPX100	DOCSIS WebSTAR Cable Modem for NTSC Systems (Except Japan). Includes: <ul style="list-style-type: none"> • DOCSIS 1.1 certification • 100-240 VAC, 50-60 Hz Universal Power Supply • Power cord (shipped separately), specify from list below • Ethernet and USB cables • CD-ROM containing user's guide and USB driver
752081	DPX100	DOCSIS WebSTAR Cable Modem in Retail Packaging for North American NTSC systems. Includes: <ul style="list-style-type: none"> • DOCSIS 1.1 certification • 110 volt, 60 Hz In-Line Power Supply with attached power cord • Ethernet and USB cables • CD-ROM containing user's guide and USB driver
752082	DPX100	DOCSIS WebSTAR Cable Modem for PAL system. Includes: <ul style="list-style-type: none"> • DOCSIS 1.1 compatible software image (Universal frequency plan) • 100-240 VAC, 50-60 Hz Universal Power Supply • Power cord (shipped separately), specify from list below • Ethernet and USB cables • CD-ROM containing multiple language user's guide and USB driver
752083	DPX100	DOCSIS WebSTAR Cable Modem for Japanese NTSC systems. Includes: <ul style="list-style-type: none"> • DOCSIS 1.1 compatible software image (Japanese frequency plan) • 100-120 VAC, 50-60 Hz Switched Power Supply • Ethernet cable only • Japanese language user's guide

Universal In-Line Power Supply Power Cords

Part Number	Description
740338	North America, Caribbean, Philippines, Japan, Mexico, and some areas of South America
740339	Africa, Hong Kong, Ireland, and United Kingdom
740562	Europe, Middle East, Asia, and some areas of Africa and South America
740563	Australia, New Zealand, Fiji, Argentina, and mainland China
745160	Korea
745415	China and Columbia

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Replacement Components

Part Number	Description
749825	100-240 VAC, 50-60 Hz In-Line Universal Power Supply
749826	110 VAC, 60 Hz In-Line Linear Power Supply for North America
749937	100 VAC, 50-60 Hz In-Line Linear Power Supply for Japan
740580	Ethernet Cable
740579	USB Cable

Specifications and product availability are subject to change without notice.



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Scientific-Atlanta, Inc.
1-800-722-2009 or 770-236-5000
www.scientificatlanta.com

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