

## Subscriber Networks

# Model DPC2505™ Channel Bonded Cable Modem

## Description

The DPC2505™ Channel Bonded Cable Modem (DPC2505) provides DOCSIS® broadband service providers with a cost-effective solution for delivering high-speed data services at data rates in excess of 100 Mbps or up to three times that of conventional DOCSIS 2.0 technology.<sup>1</sup>

The DPC2505 also features Dual Mode. This feature allows the service provider to deploy the DPC2505 in networks that use EuroDOCSIS™ 8 MHz downstream modulation.

The DPC2505 incorporates three bonded downstream channels to effectively triple the downstream throughput as compared to traditional single-channel DOCSIS cable modems.

The DPC2505 is designed to meet DOCSIS 2.0 specifications and provides backward compatibility for operation in DOCSIS 1.1 and DOCSIS 1.0 networks.



*Description continued next page*

## Features

The following features are applicable unless otherwise noted in the **Ordering Information** section. See specific part numbers for exceptions.

- Three (3) bonded channels with total throughput in excess of 100 Mbps
- DOCSIS 3.0 compatible; operates in DOCSIS 3.0 networks
- Designed to meet DOCSIS 2.0 specifications
- Backward compatible with existing DOCSIS 1.1 and 1.0 networks
- Attractive new compact design
- Both vertical and horizontal installation options
- Support for up to 64 users (1 USB port user and up to 63 users on user-supplied Ethernet hubs)
- GigE Ethernet port with Auto-negotiate and Auto-MDIX
- USB 2.0 data port
- USB drivers for Microsoft Vista, Windows XP, and Windows 2000
- Bridged Ethernet and USB port
- Enhanced bi-directional performance maximizes data throughput
- Rugged electronic components for long-term reliability
- Software upgradeable by network download
- Remote manageability using SNMP V1/V2 and V3
- CD-ROM containing user's guide and USB driver installation software

<sup>1</sup> Scientific Atlanta Channel Bonded cable modems must be used in conjunction with CMTSS that support Channel Bonding. When used with non-Channel Bonded CMTSS, Channel Bonded cable modems function as conventional DOCSIS 2.0 cable modems.

## Description, continued

### WebWizard

The DPC2505 features WebWizard, a browser-based user interface. WebWizard is a powerful tool that facilitates installation and troubleshooting. WebWizard eliminates the need to load set-up software on the customer premises equipment (CPE). The DPC2505 also features front-panel LEDs to provide visual feedback of real-time data transmission and operational status.

## Ordering Information

Contact your Sales Representative for product availability in your area.

Description Hardware Revision 1.0 (42/88 MHz Diplex Filter)	Part Number
<b>North American Tuning Plan (NTSC-STD/NTSC-HRC)</b>	
DPC2505 Channel Bonded Cable Modem for North American NTSC tuning plan. Includes: <ul style="list-style-type: none"> <li>• DOCSIS 2.0, Hardware Revision 1.0</li> <li>• 120 V AC / 60 Hz desk-top linear power supply with attached power cord for North America</li> <li>• Ethernet and USB cables</li> <li>• CD-ROM containing user's guide and USB drivers</li> </ul> <b>North America</b>	4014310
DPC2505 Channel Bonded Cable Modem with North American NTSC tuning plan. Includes: <ul style="list-style-type: none"> <li>• DOCSIS 2.0, Hardware Revision 1.0</li> <li>• 220 V AC / 50 Hz, 12 V DC / 1A desk-top linear power supply with attached power cord for Argentina</li> <li>• Ethernet and USB cables</li> <li>• CD-ROM containing user's guide and USB drivers</li> </ul> <b>Argentina</b>	4015352
DPC2505 Channel Bonded Cable Modem for North American NTSC tuning plan. Includes: <ul style="list-style-type: none"> <li>• DOCSIS 2.0, Hardware Revision 1.0</li> <li>• 12 V DC / 1A 220 V AC desk-top linear power supply with attached power cord for Korea</li> <li>• Ethernet cable</li> <li>• No USB 2.0 port</li> <li>• No USB cable</li> <li>• No CD-ROM</li> <li>• Printed safety information sheet</li> </ul> <b>Korea</b>	4021100

## Ordering Information, continued

Description, (continued)	Part Number
<b>Hardware Revision 1.0 (42/88 MHz Diplex Filter)</b>	
<b>North American Tuning Plan (NTSC-STD/NTSC-HRC)</b>	
DPC2505 Channel Bonded Cable Modem for North American NTSC tuning plan. Includes: <ul style="list-style-type: none"> <li>• DOCSIS 2.0, Hardware Revision 1.0</li> <li>• No AC power supply</li> <li>• No USB 2.0 port</li> <li>• No USB cable</li> <li>• No Ethernet cable</li> <li>• No CD-ROM</li> <li>• Printed safety information sheet</li> <li>• Non-standard font panel</li> </ul> <b>Korea–Special Configuration</b>	4015353
DPC2505 Channel Bonded Cable Modem with North American NTSC tuning plan. Includes: <ul style="list-style-type: none"> <li>• DOCSIS 2.0, Hardware Revision 1.0</li> <li>• 230 V AC / 50 Hz desk-top linear power supply with attached power cord with 2-pin CEE7/16 Euro plug power connector</li> <li>• Ethernet and USB cables</li> <li>• CD-ROM containing user's guide and USB drivers</li> </ul>	4017978
<b>International Tuning Plan (PAL-I / PAL-G / NTSC-STD, 250 KHz resolution scan)</b>	
DPC2505 Channel Bonded Cable Modem with International tuning plan. Includes: <ul style="list-style-type: none"> <li>• DOCSIS 2.0, Hardware Revision 1.0</li> <li>• 230 V AC / 50 Hz desk-top linear power supply with attached power cord with 2-pin CEE7/16 Euro plug power connector</li> <li>• Ethernet and USB cables</li> <li>• CD-ROM containing user's guide and USB drivers</li> </ul>	4015354

Description	Part Number
<b>Hardware Revision 1.0 (55/88 MHz Diplex Filter)</b>	
<b>Japanese Tuning Plan (NTSC-Japan/NTSC-STD)</b>	
DPC2505 Channel Bonded Cable Modem for Japanese NTSC tuning plan. Includes: <ul style="list-style-type: none"> <li>• DOCSIS 2.0, Hardware Revision 1.01</li> <li>• 55/88 MHz Diplex Filter</li> <li>• 100-120 V AC / 12 V DC wall-mount linear-switching power supply, importer specific</li> <li>• One (1) Gigabit Ethernet (GigE) port</li> <li>• No USB port</li> <li>• No USB cable</li> <li>• Ethernet cable, 2 meters</li> <li>• Generic paper user's guide, Japanese</li> </ul> <b>Japan–Importer specific configuration #1</b>	4015355

## Ordering Information, continued

Description (continued)	Part Number
<b>Hardware Revision 1.0 (55/88 MHz Diplex Filter)</b>	
<b>Japanese Tuning Plan (NTSC-Japan/NTSC-STD)</b>	
DPC2505 Channel Bonded Cable Modem with Japanese NTSC tuning plan. Includes: <ul style="list-style-type: none"> <li>• DOCSIS 2.0, Hardware Revision 1.01</li> <li>• 55/88 MHz Diplex Filter</li> <li>• 100-120 V AC / 12 V DC wall-mount linear switching mode power supply, importer specific</li> <li>• One (1) Gigabit Ethernet (GigE) port</li> <li>• No USB port</li> <li>• No USB cable</li> <li>• Ethernet cable, 2 meters</li> <li>• Generic paper user's guide, Japanese</li> </ul> <b>Japan-Importer specific configuration #2</b>	4019914

## Replacement Components

AC Power Supplies	Part Number
<i>Linear, Class 2</i>	
120 V AC / 60 Hz, 12 V DC / 1A desk-top linear power supply for North America	749826
230 V AC / 50 Hz, 12 V DC / 1A desk-top linear power supply with attached cord and CEE7/16 Euro plug power connector	4002193
230 V AC / 50 Hz, 12 V DC / 1A desk-top linear power supply with attached cord and BS-1363 style 3-pin power connector	4004768
220 V AC / 60 Hz, 12 V DC / 1A desk-top linear power supply with attached cord and power connector for Korea	4004222
220 V AC / 50 Hz, 12 V DC / 1A desk-top linear power supply with attached cord and power connector for Argentina	4012871
<i>Switching Mode, Class 2</i>	
100-240 V AC / 50-60 Hz, 12 V DC / 1A desk-top universal switching mode power supply, Class II, C7 AC connector, 2 conductor (power cord not included, order power cord separately)	4009116
<i>High Efficiency Linear Switching, Class 2</i>	
100-120 V AC / 50-60 Hz, 12 V DC /1A wall-mount linear switching power supply for North America and Japan (Japanese importer #1)	4015452
100-120 V AC / 50-60 Hz, 12 V DC / 1A wall-mount linear switching power supply for North American and Japan (Japanese importer #2)	4020509
220 V AC / 50-60 Hz, 12 V DC /1A wall-mount linear switching power supply for Argentina	4015457
220 V AC / 50-60 Hz, 12 V DC /1A wall-mount linear switching power supply for Korea	4015458
230-240 V AC / 50-60 Hz, 12 V DC /1A wall-mount linear switching power supply with Euro-style connector	4015453

## Replacement Components, continued

Power Cords	Part Number
<i>Class 2</i>	
Power cord, 2 conductor, North America, NEMA 1-15 to C7, non-polarized	1002239
Power cord, 2 conductor, Japan, NEMA 1-15 to C7, non-polarized	207586
Power cord, 2 conductor, European, Euro plug CEE7/16 to C7	503414
Power cord, 2 conductor, United Kingdom, BS1363 to C7	1002798
Power cord, 2 conductor, Brazil Euro plug CEE7/16 to C7, INMETRO	4009115
Power cord, 2 conductor, Korea	4010439
Power cord, 2 conductor, Argentina	4012938

Cables	Part Number
Ethernet cable, standard 1.2 meter length	740580
Ethernet cable, 2 meters	4018790
USB cable	740579

User's Guide and USB Drivers	Part Number
CD-ROM with user's guide and USB drivers	4001911
User's guide, paper, Japanese	7011576



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