

# Cable Modems

## DCW615

## Wireless Gateway / Cable Modem



RCA's latest DOCSIS wireless gateway, the DCW615 provides to cable operators a further improvement of its DOCSIS product-line for additional services to their customers. The DCW615 Gateway features both wireless (802.11b) and over the phone line (HpNA) home networking standards. With the addition of extensive Ethernet and USB connectivity and multiple local configuration capabilities, this RCA gateway is ideal for residential and SOHO environments. RCA's new sleek case design is also consistent throughout its product line of cable modems.

- DOCSIS 1.0 certified
- DOCSIS 1.1 certified
- 802.11b wireless connection capable of supporting 254 PC's at speed up to 11Mb/s
- Designed to be upgradeable to 802.11g
- Easy Access to Advanced Diagnostics Web Pages
- HpNA, networking capability through the phone line at speed up to 10Mb/s
- Security through a built-in stateful packet inspection firewall
- Privacy through WEP protocols (encryption between the gateway and the PC's)
- Easy Access to Advanced Diagnostics Web Pages
- USB port for easy installation.
- Reliable high-performance platform.
- Surf the Internet Up to 100 Times Faster than a 56k analog Modem (1)

1 - Compared with a 56 kbps analog telephone modem. Internet access sold separately. Microsoft Windows and the Windows logo are registered trademarks of Microsoft Corporation in the United States and/or other countries. The CL CABLELABS CERTIFIED and design mark, and the terms "Cable Labs Certified" or "Certified by CableLabs" are certification marks of Cable Television Laboratories, Inc. and cannot be used without authorization of Cable Television Laboratories, Inc.

### Other Broadband Cable Products:

- DGW504** : 4 port router
- DCM315** : DOCSIS 2.0 ready cable modem
- DHG455** : 2 lines PacketCable DOCSIS VoIP E-MTA
- THOMSONWATCH** : SNMP based diagnostic tool

# DCW615

## Wireless Gateway / Cable Modem

### Main Features

- DOCSIS Based Design** - The cable modem is certified to work on any DOCSIS based HFC cable system.
- Wi-Fi 802.11b** - The DCW615 supports 802.11b standard but is designed to support 802.11g by software upgrade provided by your cable operator and exchange of the PCMCIA card with a THOMSON recommended 802.11g card.
- E-Z Start-Up Indicators** - Easy-to-use LED lights on the front of the unit show the modem status. This provides the user the ability to verify modem operation and connectivity.
- Simple-to-Use Illustrated Setup Guide** - The guide steps users through the connections of the broadband cable, electrical power, and Ethernet or USB cables.
- Security** - Supports BPI+ communications privacy to support secure data exchange between modems and cable operators' servers.
- Internal Web Pages** - The DCW615 multiple web pages allow direct access to information about the status of the modem and to the product settings in particular privacy and security.

#### ► PC Compatible

<b>CPU</b>	486DX 66MHz (Pentium Preferred)
<b>System RAM</b>	16MB (32MB Preferred)
<b>Operating System</b>	Windows Me, 2000 and XP
<b>Available Disk Space</b>	76MB
<b>Sound Card</b>	16-Bit
<b>Video</b>	VGA (SVGA Preferred)
<b>Ethernet</b>	10 or 100 Base-T
<b>USB</b>	Windows 98SE or later
<b>Drive</b>	CD-Rom

#### ► Applications Supported

<b>FTP</b>	<b>AOL &amp; MSN Messenger</b>
<b>Real Audio</b>	<b>Yahoo Messenger</b>
<b>H.323</b>	<b>Go2Call</b>
<b>ICQ</b>	<b>Hotline Server</b>
<b>IPSec Passthru</b>	<b>Visual IRC</b>
<b>Passthru</b>	<b>CuSeeme</b>
<b>L2TP</b>	<b>AT&amp;T Instant Messenger Anyway</b>
<b>TFTP MIRC</b>	<b>Active Worlds</b>
<b>PIRCH</b>	<b>Buddy Phone</b>
<b>MS NetMeeting</b>	<b>Calista IP Phone</b>
<b>Net2phone</b>	<b>Delta Three PC to Phone</b>
<b>Xircon</b>	<b>Dialpad Dwyco Video Conferencing</b>
<b>Netscape Chat</b>	<b>OrbitIRC</b>

### Technical Specifications

#### ► Standards

<b>DOCSIS 1.0</b>	CableLabs certified
<b>DOCSIS 1.1</b>	CableLabs certified

#### ► Receiver

<b>Downstream Modulation</b>	64/256 QAM
<b>Center Frequency Range</b>	91-857 MHz
<b>Channel Bandwidth</b>	6 MHz
<b>Maximum Downstream Data Rate</b>	27/38 Mbps {64QAM/256 QAM}
<b>RF Input Sensitivity</b>	+15 to - 15 dBmV
<b>64QAM:&gt;23.5dB, 256QAM:&gt;30dB</b>	BER <1e-8
<b>Input Impedance</b>	75 Ohm

#### ► Transmitter

<b>Upstream Modulator</b>	QPSK/16 QAM
<b>Frequency Range</b>	5-42 MHz
<b>Channel Bandwidth</b>	200 KHz, 400 KHz, 800 KHz, 1.6 MHz, 3.2 MHz
<b>Maximum Upstream Data Rate</b>	Max 5.12/10.24 Mbps {QPSK/16 QAM}
<b>RF Output Level</b>	+8 to +55 dBmV (16 QAM); +8 to +58 dBmV (QPSK)
<b>Automatic Level Adjust</b>	Yes
<b>Gain Control Range</b>	50 dB
<b>Frequency Stability</b>	± 5 kHz
<b>Output Impedance</b>	75 Ohms

#### ► Software features

<b>Software downloadable</b>	Yes
<b>Protocol Filtering</b>	Ethernet & IP
<b>SNMP Management</b>	V2, V3
<b>Security</b>	BPI+
<b>Privacy</b>	Through encryption between the gateway and the PC
<b>Led Diagnostics</b>	18 LEDs used for status
<b>Local configuration through http Server</b>	Hardware, Software status, Basic settings, Advanced settings, Firewall

#### ► Physical

<b>Cabinet Dimensions</b>	8 1/8" (W) x 6" D x 2" H
<b>Approx. Shipping Weight</b>	<3 lbs
<b>Packaging dimensions (inch)</b>	11 3/4" (L) x 9 1/2" (D) x 3" (H)
<b>Overpack dimensions (inch)</b>	20 1/4" (L) x 15 3/4" (D) x 16 1/4" (H)
<b>Overpack shipping Weight appr.</b>	29 lbs
<b>Overpack Quantity</b>	10
<b>Operating Temp.</b>	32°F to 104°F (0°C to +40°C)
<b>Cables</b>	USB & Ethernet
<b>CD-ROM</b>	Yes

#### ► I/O Interfaces

<b>Wireless</b>	802.11b standard connection at up to 11Mb/s
<b>Ethernet 10Base-T or 100Base-T</b>	4 RJ45 ports - Auto-detect
<b>RF Connector</b>	F-Type
<b>Power {Wall Pack}</b>	120Vac 60Hz
<b>Number of PCs Supported</b>	254
<b>USB port, OS supported</b>	Windows 98SE, Me, 2000 and XP
<b>Hpna</b>	RJ-11
<b>User Switches</b>	On/Off & Reset