C9 Networks

C3000 Series
DOCSIS 3.0 CMTS (Cable Modem Terminating System)

DHCP, TOD, TFTP, FTP, Telnet and Web Server all in the CMTS chassis.
Very low-cost Solution for High Speed Internet with QoS, VOD, IPTV, & VOIP!

C9 Networks, Inc provides an all in one DOCSIS 3.0 Cable Modem Termination System (CMTS) for high bandwidth applications. This system is DOCSIS standards compliant and also supports channel bonding up to 8 Downstream (DS) channels and 4 Upstream (US) channels. It can operate with all DOCSIS 3.0 Cable modems and is backwards compatible with DOCSIS 2.0 Cable modems.

C9 Networks has focused on small/mini-CMTS for the last 12 years. C9 was the first company to make an integrated single box CMTS solution. The product is easy to use, user-friendly and cost-effective. The all-in-one solution reduces the operational and maintenance cost for the cable operator.

Applications of the C3000 Series:
• Provide high speed internet access with QoS
• Video on Demand (VoD)
• IPTV applications.
• VoIP applications.

Included in C3000 Series:

The C3000 Series is highly integrated, price-performance optimized with the management servers integrated into a single compact unit. The system provides:

• Downstream bandwidth up to 320Mbps (640Mbps with C4400)
• DOCSIS management servers like DHCP, TFTP & ToD.
• Web server for local & remote Configuration and Management
• Subscriber Provisioning and QoS software.

Configurations offered:

Model	Configuration	DS bandwidth	US bandwidth	CMs supported
C3400	4DSx4US	160 Mbps	120 Mbps	500 CMs
C3800	8DSx4US	320 Mbps	120 Mbps	500 CMs

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Specifications:

	Description	
Physical	Form Factor	1.5U box (Rack Mountable)
	Height	2.6 in / 6.7 cm (approx)
	Width	19 in / 48.3 cm
	Depth	17 in (approx)
	Weight	-
Network & Interfaces	• Layer2 Bridge (Router upgradable) • Uplink: 1 Gigabit Ethernet port; • Serial Port	
Configuration	• C3400: 4DSx4US; DS = 160Mbps; US = 120Mbps • **C3800: 8DSx4US; DS = 320Mbps; US = 120Mbps** • C4400; 16DSx4US; DS = 640Mbps; US = 120Mbps (16DS = 800Mbps approx with Euro-DOCSIS)	
RF Spectrum Support	<u>Downstream Parameters</u> • 4 or 8 Downstream Ports on single coaxial connector • Downstream modulation 256QAM, 64QAM <u>Upstream Parameters</u> • 4 Upstream channels • Upstream Modulation QAM 64, 16 and QPSK. • Upstream per channel maximum bit rate 30 Mbps	
DOCSIS Support	• DOCSIS 3.0/2.0 • Euro-DOCSIS support • Inter-operates with all DOCSIS 3.0 and 2.0 modems	
User interface	• Web interface, CLI (SNMP upgradeable) • Remote monitoring and configuration	
Network Management & Provisioning	• SNMPv1 and v3 (upgradeable) • IETF MIBS • DOCSIS MIBs • Tools to monitor RF levels of CM and CMTS • Tools to display the MAC and IP address of CMs and CPEs.	
CMTS Servers	• Servers: DHCP, TOD, TFTP, FTP, Telnet and Web Server • Integrated with the CMTS in the same chassis.	
Network features & tools	• Support for Non-routable IP addresses for Cable Modems. • CM Private subnet • Routable IP addresses for CPEs. • DHCP relay with support for option 82 and 118.	
Subscriber Provisioning	• Subscriber Provisioning Manager: Service activation/de-activation • IP address assignment/management. • Multiple levels of QoS creation and assignment to subscribers	

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