

1RU Compact DOCSIS 3.0 CMTS Platform



C3000 Series

- High Efficiency with CompactForm
- DOCSIS 3.0/2.0/1.1/1.0
- 16 Downstream Channels (1.1Gbps)
- 4 Upstream Channels (160Mbps)
- WAN Port GE RJ45 & SFP
- Support L3 Routing, VLAN,NAT and DHCP
- Easy Installation
- Support Remote Monitoring and SNMP

C3000 1RU CMTS is a series of high performance Layer 3 networking CMTS device designed to deliver multimedia services to subscriber's home through cost effective last mile CATV coaxial network. C3000 CMTS is fully compliant to DOCSIS and EuroDOCSIS standards, and enables high speed data access over existing coaxial cables, as well as traditional CATV signal and other advanced services.

C3000 CMTS provides 1Gbps uplink data connection (RJ45 or SFP) and supports 4 independent RF upstream channels and 16 downstream RF channels with DS throughput of 1100Mbps at QAM1024. It offers high bandwidth, Quality of Service, which is suitable for IPTV or VOD and other online video/gaming service. The C3000 CMTS can be managed through the local and remote SNMP management system.

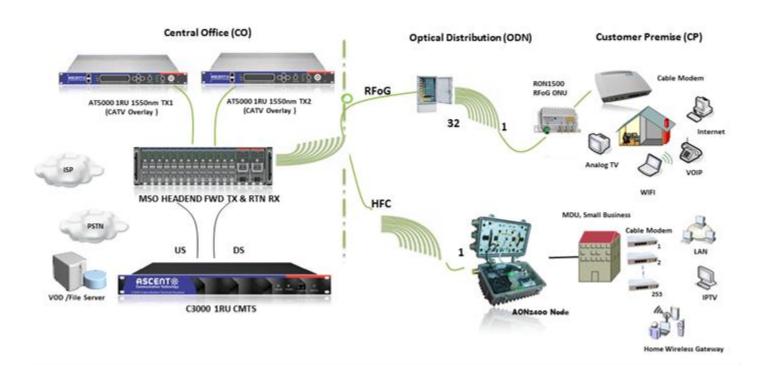
The C3000 Compact CMTS provides great flexibility to network service operator to connect subscribers with standard cable modems. With outstanding performance, quality, and features packed in a compact sized device, the C3000 series is a great selection for Network Operators and Services Providers in CATV residential and business networks.



Key Features -

- High efficiency and Compact DOCSIS 3.0 CMTS designed for small and medium sized MSOs
- Compatible with DOCSIS3.0/2.0/1.1/1.0, EURO-DOCSIS, work with all DOCSIS cable modems
- 16 DS channel bonding, 64/256/1024QAM modulation. up to 1.1Gbps@1024QAM
- 4 US channel bonding, QPSK, 3-8 grade QAM mode, up to 160Mbps@256QAM
- Flexibility on both upstream and downstream channel bounding scheme
- Layer 3 routing function supporting static route, VLAN, NAT and DHCP relay agent
- WAN link supports both 1000M RJ45 port and GE SFP port for operation convenience
- Built-in DHCP/TFTP server, supports PPPoE
- Support IPV6, multicast function, Load balancing
- QoS based on service flow ensures bandwidth needs for various services
- Network transmit safety via various methods such as BPI+, CM identification, anti-DOS attack, user isolation and IP source checking
- Real time upstream spectrum analysis function to monitor US channel signal and noise status
- 4 independent upstream RF channels reduce 8dB combined return noise from network
- Support CLI via serial port Telnet, web GUI and SNMP network management software

Application Diagram •





1RU Compact CMTS Specifications •

C3000 Series CMTS Platform

Gigabit Ethernet Ports (WAN) 1 x 10/100/1000Mbps Ethernet port

1 x GE SFP Uplink (Optical port)

CATV RF Ports 1 Downstream, 1 or 4 Upstream RF inputs, CATV Coaxial F

Connector

System Console 1 RJ45 port

Protocols TCP/IP, ARP, RIPv2, ICMP, VLAN, multicast, OSPF, DHCP, TFTP,

SNMP, PPPoE, DHCP relay agent, Telnet

DS Specification DOCSIS 3.0/2.0/1.1/1.0, EuroDOCSIS 2.0 and 3.0

RF Bandwidth 91 MHz – 857MHz (DOCSIS); 112 MHz – 1002MHz (Euro-DOCSIS)

Modulation Scheme 64/256/1024QAM, Annex A (8MHz), B(6MHz)
Throughput @ QAM1024 1100 Mbps (16x Annex A), 857 Mbps (16x Annex B)
Output Power 41 dBmV (16 ch 8MHz), 38dBmV (16 ch 6MHz)

US Specification

RF Bandwidth5 MHz – 65 MHz (85MHz Optional)Modulation SchemeQPSK, 16QAM, 64QAM, 256QAMThroughput160 Mbps (4x 6.4MHz, QAM256)

Receiving Level -1~+29dBmV(6.4MHz), -7~+23dBmV(1.6MHz),

Max. Online Cable Modems 500 (2000 Home-Passed)

L2 Features MAC address, L2 Forwarding, L2 VPN

L3 Features DHCP Relay, ARP, Static Routing, RIP, IGMP v1, v2, Proxy,

DOCSIS SAV

VLAN IEEE802.1Q (VLAN Tagging)
QoS ToS and CoS Classification

SNMP v1, v2

Security DHCP Option60/82

General Specifications

Management Support user management based at SNMP, WEB and CLI

Operating Temp, °C -0 to 40
Storage Temp, °C -40 to 70

Power Supply VAC 100 to 240 VAC, -48VDC

Operating relative humidity, % 10 to 90

Power Consumption W 50

Dimensions (W x D x H) mm 430x285x44

Weight, kg 3.0



Ordering Information -

C3000-CMTS-D-1-AC
C3000 1RU DOCSIS 3.0 CMTS 1DS, 1US port, AC Power Supply
C3000-CMTS-D-4-AC
C3000 1RU DOCSIS 3.0 CMTS 1DS, 4US port, AC Power Supply
C3000-CMTS-D-1-DC
C3000 1RU DOCSIS 3.0 CMTS 1DS, 1US port, DC Power Supply
C3000-CMTS-D-4-DC
C3000 1RU DOCSIS 3.0 CMTS 1DS, 4US port, DC Power Supply



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