

Cable

4 Gigabit Ethernet Ports | 802.11n (300 Mbps)

CM-6300n

DOCSIS 3.0 Cable Router



The Comtrend CM-6300n is a DOCSIS3.0 / EURODOCSIS3.0 compliant Wireless Residential Gateway. The CM-6300n provides high-speed Internet connections to residential and commercial subscribers on public and private networks via an existing cable infrastructure. Four Gigabit Ports will optimize busy networks.

Leveraging cutting-edge DOCSIS cable technology, the CM-6300n adopts dynamic bandwidth adjustment by providing various sets of downstream and upstream profiles depending upon specific cable plant requirements. The 4-port Gigabit Ethernet switch is integrated with an 802.11n access point. It not only offers bandwidth up to 320Mbps (maximum downstream data rates with 8 channels downstream bonding), it also provides multiple network connectivity options such as Ethernet and Wireless. The CM-6300n will be the cornerstone of your office or home network.

FEATURES

- DOCSIS/EURODOCSIS 3.0 Standard Compliant
- Support up to 8 downstream and 4 upstream channels
- Built-in 802.11n access point supporting up to 300Mbps transfer speeds
- Four port 10/100/1000 BaseT Ethernet switch with Auto-Negotiation MDIX functionality
- SNMPv1/2/3 remote network management support
- Support for all DOCSIS1.0/1.1/2.0/3.0 MIBs
- Quality of Service Support

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SPECIFICATIONS

Standard Support

- DOCSIS / EURODOCSIS 1.0/1.1/2.0/3.0
- IEEE 802.11n

Physical Interface

- WAN F-type female 75 ohm connector
- LAN Gigabit 10/100/1000 Mbp x 4
IEEE 802.11n AP
- Power 12V DC / 1.5A

Network Protocol

- Network protocol IP / TCP / UDP / ARP / ICMP /
DHCP / TFTP / SNMP / HTTP
- Routing DNS relay / DHCP server / RIP v1/2
- Internet Sharing NAT / NAT / DHCP server / DNS relay
- Management protocol SNMP v1/v2/v3
- DHCP server LAN DHCP service with and without
WAN connection
- DHCP client Automatically gets IP and DNS server
address from DHCP server at ISP
- DNS Server Resolve local host name & return referral
upon non-resolution
- ToD RFC 868 ToD support for local and MSO time
synchronization
- TFTP Client TFTP support for cable modem
configuration file download
- Tools Ping tool via ICMP
Speed test tool via UDP
- Management Web-based Management Interface utility

Downstream Receiver

- Demodulation 8 Downstream with up to 1024QAM
- Data Rate 30Mbps (64QAM)
43Mbps (256QAM)/DOCSIS
41Mbps (64QAM)
55Mbps (256QAM)/EURODOCSIS
Up to 320Mbps by 8 Channels bonding
- Frequency Range 88MHz to 860MHz DOCSIS
108MHz to 862MHz EURODOCSIS
- Bandwidth 6MHz DOCSIS
8MHz EURODOCSIS
- Input Power -15dBmV to +15dBmV

Upstream Transmitter

- Modulation QPSK, 8/16/32/64/128,256QAM, 4 U/S
- Data Rate 30Mbps / TDMA , 35Mbps / SCDMA
Up to 160Mbps by 4 U/S channel
Bonding
- Frequency Range 5MHz~85MHz / DOCSIS
5MHz~85MHz / Japan
5MHz~65MHz / EURODOCSIS
- Bandwidth 200KHz, 400KHz, 800KHz,
1600KHz, 3200KHz, 6400KHz
- Output Signal Level
+8 to +58dBmV (QPSK), +8 to +54dBmV (64QAM),
+8 to +54dBmV (32QAM) , +8 to +53dBmV (S-CDMA)

Wireless Module

- 2.4GHz Access Point with up to 300Mbps transfer rates
- Backwards compatible with 802.11g
- Wi-Fi Protected Setup (WPS) Button



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