

CM380 Wireless DOCSIS 3.0 Cable Modem



- **MCNS/EURO DOCSIS 3.0 standard compliant**
- **2 or 4 x 10/100/1000 Base-T Ethernet interface (RJ45)**
- **Downstream data rates up to 400 Mbps**
- **Upstream data rates up to 120 Mbps**
- **8x4 channel bonding**
- **802.11n wireless standard**
- **WEP, WPA, and WPA2 encryption**
- **User Friendly LED interface**

Ascent's CM380 is a new generation of MCNS/EURO DOCSIS 3.0 compliant wireless cable modem that can be connected to standard compliant CMTS headend devices.

Through 10/100/1000 Base-T interfaces, CM380's eight bonded downstream and four bonded upstream channels can deliver a maximum downstream rate of 400 Mbps and a maximum upstream rate of 120 Mbps. CM380 can also function as an 802.11n wireless access point.

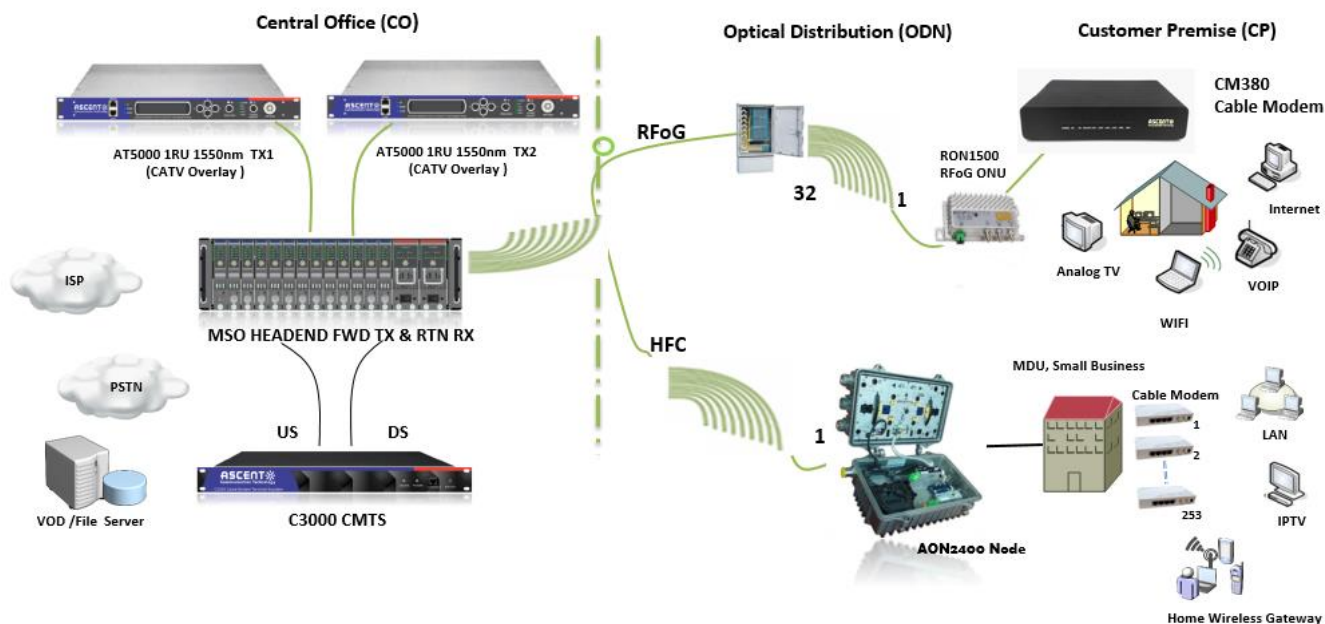
With its high data speeds, CM380 can provide high performance internet access for Windows, Mac, or Linux computers, HDTVs, game consoles, and other Ethernet-capable or wireless devices. With its ease of use and high performance, CM380 is suitable for applications in homes and small business settings.

Multi-Service Operators can offer data services to their subscribers along with other value added OTT, IP based video and voice services.

Key Features

- Up to 400 Mbps downstream data rate with 8 bonded channels
- Up to 120 Mbps upstream data rate with 4 bonded channels
- High performance Wi-Fi® Alliance credited 802.11b/g/n wireless access point
- Advanced MIMO antenna configuration for optimal throughput and coverage
- High Speed Internet via 2 or 4 ports 10/100/1000Base-T Ethernet (RJ-45)
- 802.11b/g/n wireless access point
- 10/100/1000Base-T Ethernet RJ45 interface
- WEP/WPA/WPA2/WPA-PSK/WPA2-PSK encryption

System Diagram



Specifications

Interface

Input	F-type RF connector
Ethernet	2 or 4 × 10/100/1000 BASE-T
Antenna	2 × 3 or 5 dBi internal

Downstream

Frequency Range	NA 108 ~ 1002 MHz EU 108 ~ 1002 MHz
Modulation	64QAM/256QAM
Input Signal Level	-17 ~ +13 dBmV (64QAM) -13 ~ +17 dBmV (256QAM)
Data Rate	NA 8 maximum downstream channel 320 Mbps EU 8 maximum downstream channel 400 Mbps
Bandwidth	NA 6 MHz (Alpha=0.18 for 64QAM) 6 MHz (Alpha=0.12 for 256QAM) EU 8 MHz (Alpha=0.15 for 64QAM & 256QAM)
Capture Bandwidth	Maximum support 8 channel bonding
Input Impedance	75 Ω
Input Return Loss	<-8 dB

Upstream

Frequency Range		NA 5 ~ 42 MHz			
		EU 5 ~ 65 MHz			
Output Modulation		Minimum power		Single-channel	Four-channel
Signal				maximum power	maximum power
Level		1280 Mbps	5120 Mbps	TDMA/S-CDMA	TDMA/S-CDMA
	QPSK	17 dBmV	23dBmV	61/56dBmV	55/53dBmV
	8QAM	17 dBmV	23 dBmV	58/56 dBmV	52/53 dBmV
	16QAM	17 dBmV	23 dBmV	58/56 dBmV	52/53 dBmV
	32QAM	17 dBmV	23 dBmV	57/56 dBmV	51/53 dBmV
	64QAM	17 dBmV	23 dBmV	57/56 dBmV	51/53 dBmV
	128QAM (S-CDMA)	17 dBmV	23 dBmV	-/56 dBmV	-/53 dBmV
Modulation		160 kHz, 320 kHz, 640 kHz, 1280 kHz, 2560 kHz, 5120 kHz			
Data Rate		4 maximum upstream channel 120 Mbps			
Bandwidth		200 kHz, 400 kHz, 800 kHz, 1600 kHz, 3200 kHz, 6400 kHz			
Output Impedance		75 Ω			
Output Return Loss		<-10 dB			

Hardware Characteristics

Input Power	220V, 50Hz
Output Power	12±5% V DC, 1500 mA
Operating Temperature	0 ~ 40 °C
Storage Temperature	-20 ~ 70 °C
Operating Humidity	10 ~ 90%
Storage Humidity	5 ~ 95%

Wireless Features

Wireless Standard	IEEE 802.11n, IEEE 802.11g, IEEE 802.11b
Frequency	2.4 ~ 2.4835 GHz
Transmission Rate	11b/g/n: Up to 11/54/300 Mbps (dynamic)
Modulation	11n: BPSK, QPSK, 16QAM, 64QAM with OFDM 11g: BPSK, QPSK, 16QAM, 64QAM, OFDM

Wireless Transmit Power	11b: DQPSK, DBPSK, DSSS, CCK 19 ~ 21dBm
Receiver Sensitivity	270/130/108M: -73dBm@10% PER 54M: -76dBm@10% PER 11M: -93dBm@8% PER 6M: -95dBm@10% PER 1M: -90dBm@8% PER
Encryption	64/128/152-bit WEP / WPA / WPA2,WPA-PSK / WPA2-PSK

Ordering Information

CM380-W-01 DOCSIS 3.0 Wireless CM 100-240 VAC Power supply with AU power plug

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