CISCO DPC3208

DOCSIS 3.0 CABLE MODEM

FEATURES

- 8 bonded downstream channels with data rates in excess of 340 Mbps
- 4 bonded upstream channels with data rates in excess of 120 Mbps
- Designed to meet DOCSIS 3.0 specifications
- Backward compatible with existing DOCSIS 2.0, 1.1, and 1.0 networks
- 10/100/1000 Base-T auto-sensing/auto-MDIX Ethernet port
- Support for up to 64 users (1 USB port user and up to 63 users)
- Dual color LEDs on the front panel
- Remote manageability using SNMP V1/V2 and V3
- Software upgradeable by network download

PRODUCT SPECIFICATIONS

FRONT PANEL FEATURES

Indicators	POWER, DS, US, ONLINE, LINK
Color	Black case, black face plate, silver text, green/amber LEDs
Branding	Cisco logo and model number

BACK PANEL FEATURES

Power (Connector Color: Black)	Connects modem to the DC output of the AC power adapter
Power Switch (not shown)	Turns power on and off to the device
Ethernet (Connector Color: Yellow)	RJ-45 ethernet port connects to the ethernet port on your PC or your home network
Reboot EMTA	Power cycles the cable modem
Cable (Connector Color: White)	F-connector connects to active cable signal from your service provider

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PRODUCT SPECIFICATIONS

RF DOWNSTREAM

Operating Frequency Range	88 to 1002 MHz or 54 to 1002 MHz
Tuner Frequency Range	88 to 1002 MHz
Tuner	(1) Frequency agile block tuner, 96 MHz bandpass
Demodulation	8 demodulators, 64 QAM or 256 QAM
Maximum Data Rate	8 downstream channels, each 6 MHz channel: 42.88 Mbps for 256 QAM and 30.34 Mbps for 64 QAM
Bandwidth	6 MHz
Operating Level Range	-15 to +15 dBmV
Input Impedance	75 ohms

RF UPSTREAM

Operating Frequency Range	5 to 42 MHz, 5 to 65 MHz or 5 to 85 MHz
Transmitter Frequency Range	5 to 42 MHz, 5 to 65 MHz or 5 to 85 MHz
Upstream Transmission	4 upstream channels
Modulation	A-TDMA: QPSK, 8 QAM, 16 QAM, 32 QAM, 64 QAM S-CDMA: QPSK, 8 QAM, 16 QAM, 32 QAM, 64 QAM, 128 QAM
Bandwidth	200 kHz to 6.4 MHz

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PRODUCT SPECIFICATIONS

RF UPSTREAM (CONT.)

Maximum Data Rate Per Channel	Modulation	Channel Bandwidth (MHz)	Raw Data Rate (Mbps)
	QPSK	1.6	2.56
	16 QAM	1.6	5.12
	QPSK	3.2	5.12
	16 QAM	3.2	10.24
	32 QAM	3.2	12.8
	64 QAM	3.2	15.4
	16 QAM	6.4	20.5
	32 QAM	6.4	25.6
	64 QAM	6.4	30.72

Maximum Operating Level		One Channel	2 Channels	3 or 4 Channels
TDMA	QPSK	+61 dBmV	+58 dBmV	+55 dBmV
	8 QAM	+58 dBmV	+55 dBmV	+52 dBmV
	16 QAM	+58 dBmV	+55 dBmV	+52 dBmV
	32 QAM	+57 dBmV	+54 dBmV	+51 dBmV
	64 QAM	+57 dBmV	+54 dBmV	+51 dBmV
S-CMDA	QPSK	+56 dBmV	+53 dBmV	+53 dBmV
	8 QAM	+56 dBmV	+53 dBmV	+53 dBmV
	16 QAM	+56 dBmV	+53 dBmV	+53 dBmV
	32 QAM	+56 dBmV	+53 dBmV	+53 dBmV
	64 QAM	+56 dBmV	+53 dBmV	+53 dBmV
	128 QAM	+56 dBmV	+53 dBmV	+53 dBmV

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RF UPSTREAM (CONT.)

Input Voltage	12 VDC
Power Consumption (Modem Module)	~ 5.0 Watts
Data Ports	Ethernet 10/100/1000 Base-T (Auto-sensing with Auto-MDIX) RJ-45 Ethernet (1)
RF	Female "F" Type
Impedance	75 ohms
Dimensions (H x D x W)	5.92 in. x 4.8 in. 1.15 in. (not including "F" connector)
Weight (Approximate)	8.4 oz.
Operating Temperature ˚F (˚C)	32˚ to 104˚F (0˚ to 40˚C)
Operating Humidity	0 to 90% RH non-condensing
Storage Temperature ˚F (˚C)	-4˚ to 140˚F (-20˚ to 60˚C)
Designed to Comply with the Following Standards	DOCSIS 3.0, 2.0, 1.1, 1.0
Regulatory and Safety Approvals	As required per county where the DPC3008 will be used

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