

CISCO DPC3010

DOCSIS 3.0 CABLE MODEM

FEATURES

- 8 bonded channels with total throughput in excess of 300 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
- USB 2.0 data port (option)
- 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

Color

Branding

POWER, DS, US, ONLINE, LINK

Black textured, black face plate, silver text, dual-color green/amber LEDs

Cisco 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)

(1) RJ-45 ethernet port connects to the ethernet port on your PC or your home network

USB (option; Connector Color: Blue)

(1) Type B USB 2.0 port connects to USB port on PC

Reset

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 108 to 1002 MHz
Tuner Frequency Range	88 to 1002 MHz
Tuner	(2) Frequency agile block tuners, 32 MHz bandpass each
Demodulation	8 demodulators, 4 per tuner, each demodulator; 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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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)	~ 7.5 Watts
Data Ports	GigE (Auto-negotiate with Auto-MDIX): RJ-45 Ethernet (1) USB 2.0: USB Type B (1) optional
RF	Female "F" Type
Impedance	75 ohms
Dimensions (H x D x W)	1.5 in. x 5.2 in. 5.9 in.
Weight (Approximate)	10.3 oz.
Operating Temperature °F (°C)	32° to 104°F (0° to 40°C)
Operating Humidity	0 to 95% RH non-condensing
Storage Temperature °F (°C)	-4° to 158°F (-20° to 70°C)
Designed to Comply with the Following Standards	DOCSIS 3.0
Regulatory and Safety Approvals	As required per county where the DPC3010 will be used