DOCSIS 3.0 Cable Modem

Model 5341

The Zoom Model 5341 cable modem meets the cable industry's DOCSIS 3.0 standard for speeds up to 172 Mbps, and also works with lower-speed DOCSIS 2.0, 1.1, and 1.0 services. The Model 5341 has been tested and certified by CableLabs to work with nearly all U.S. cable services. This modem can be plugged into any Windows, Macintosh or Linux computer with an Ethernet port. The Model 5341 can also be plugged into routers and routers with wireless capability for sharing of your high-speed service with multiple devices. With its easy installation, high speed, and broad compatibility, the Model 5341 is the perfect choice for almost any cable modem user.

Features:

- **Easy Installation**

- **Fast data speeds**
  Up to 172 Mbps downstream and 143 Mbps upstream with bonding of up to four channels

- **Fast 10/100/1000Base-T Ethernet connectivity**
  To support the very fast DOCSIS 3.0 data transfers and provide compatibility and easy installation with almost any Windows, Mac or Linux computer, as well as both wired and wireless routers

- **Supports IPv4 and IPv6**
  Support for the future of Internet addressing keeps your equipment current

- **Five status-reporting LEDs**
  Power, Downstream, Upstream, Status, and Link lights allow easy status monitoring.

- **DOCSIS 3.0 compatible, as well as earlier standards**
  Provides support for the latest data-over cable standard DOCSIS 3.0, as well as DOCSIS 1.0, 1.1 and 2.0 to ensure operation with the fastest available services and compatibility with all US operators.

  DOCSIS (Data Over Cable Service Interface Specification) is the industry standard for transmission of Internet data over cable-based systems in the US and many other countries. Check with your service provider to ensure they use the DOCSIS standard.

- **Extensive SNMP management support**
  Includes MIB-II, Ethernet - Like MIB, Bridge MIB, Cable Device MIB, Baseline Privacy Interface MIB, RF Interface MIB

- **Flexible Cable Modem Orientation-**Horizontal or vertical using the 5341Modem Stand

- **Experienced, U.S.-based technical support for both consumers and service providers**

- **Certified by CableLabs**

- **Two year warranty**

**Zoom
DOCSIS 3.0
Cable Modem**

Package contents:

- Cable Modem
- Modem Stand
- Power Cube
- Ethernet Cable
- Quick Start Flyer

Specifications

Cable modem service interface	F-type female 75 Ω (standard coaxial connector)
Ethernet LAN interface	RJ-45 10/100/1000 Mbps Ethernet, with Auto-MDI/MDIX
Status Indicators	Power, Downstream link, Upstream link, Ethernet link, Connection Status
Size	5.6 X 4.7 X 1.2 inches (14 X 12 X 3 cm)
Weight	6.8 ounces (190 grams)
Power adapter	Level 4 energy-saving, switching power supply with 6 Volt DC, 1.5 Amp output
Operating temperature	32° to 104° F (0° to 40°C)
System Requirements	- The cable modem must be connected to a cable modem service that uses any of the DOCSIS standards - 3.0, 2.0, 1.1, or 1.0.
	- An available Ethernet port on a Windows, Macintosh, or Linux computer, or an available Ethernet port on a wired or wireless router.
Approvals	FCC part 15B, CE, UL, Cablelabs®

Operating Parameters

	Downstream	Upstream
Data Rate*	Up to 171.537 Mbps (4 channels) Up to 42.844 (single channel)	Up to 143.36 Mbps (4 channels) Up to 35.84 Mbps (single channel)
Frequency	108 to 1002 MHz (edge to edge)	5 to 42 MHz (edge to edge)
Modulation	64 or 256 QAM	QPSK, 8QAM, 16QAM, 32QAM, 64QAM, 128QAM

Frequency search cache	4 entries
Frequency search channel plan	6 MHz step
Security	DOCSIS 3.0 Security (BPI+, EAE, SSD)

Bandwidth	DOCSIS 2.0
	   TDMA: 200, 400, 800, 1600, 3200, 6400 KHz
	   S-CDMA: 1600, 3200, 6400 KHz
	DOCSIS 3.0
	   TDMA: 1600, 3200, 6400 KHz
	   S-CDMA: 1600, 3200, 6400 KHz

Maximum Number of CPEs	32 MAC addresses

Operating Level Range	Level range per channel (Multiple Transmit Channel modem disabled, or only Multiple Transmit Channel mode enabled with one channel in the TCS)
	TDMA: Pmin to +57 dBmv (32 QAM, 64 QAM)
	      Pmin to +58 dBmv (8 QAM, 16 QAM)
	      Pmin to +61 dBmv (QPSK)

S-CDMA: Pmin to +56 dBmv (all modulations), where:
      Pmin = +17 dBmv @ 1280 kHz modulation rate
      Pmin = +20 dBmv @ 2560 kHz modulation rate
      Pmin = +23 dBmv @ 5120 kHz modulation rate

Level range per channel (two channels in the TCS)
TDMA: Pmin to +54 dBmv (32 QAM, 64 QAM)
      Pmin to +55 dBmv (8 QAM, 16 QAM)
      Pmin to +58 dBmv (QPSK)

S-CDMA: Pmin to +53 dBmv (all modulations), where:
      Pmin = +17 dBmv @ 1280 kHz modulation rate
      Pmin = +20 dBmv @ 2560 kHz modulation rate
      Pmin = +23 dBmv @ 5120 kHz modulation rate

Level range per channel (three or four channels in the TCS)
TDMA: Pmin to +51 dBmv (32 QAM, 64 QAM)
      Pmin to +52 dBmv (8 QAM, 16 QAM)
      Pmin to +55 dBmv (QPSK)

S-CDMA: Pmin to +53 dBmv (all modulations), where:
      Pmin = +17 dBmv @ 1280 kHz modulation rate
      Pmin = +20 dBmv @ 2560 kHz modulation rate
      Pmin = +23 dBmv @ 5120 kHz modulation rate

The output level of the 5341 can be automatically controlled by a service provider's CMTS through a power ranging function. Steps are 1dB.

Core chipset	Texas Instruments Puma 5 TNETC4830 (4X4)

* Data throughput will be reduced by network overhead. Delivered data speeds are also dependent upon the
   configuration and capacity of the data-over-cable service on which the 5341 is used.