



DOCSIS 3.0

Cable Modem/Router

with High-Performance Wireless 802.11ac

Model 5363

Zoom Model 5363 integrates a DOCSIS 3.0 8x4 cable modem and a 4-port GigE router that features very fast wireless 802.11ac technology. Model 5363's 2.4 GHz and 5.0 GHz 3x3 wireless channels each use a Broadcom BCM4360 integrated circuit with advanced beamforming to achieve expanded range, reduced interference from neighbors' wireless networks, and speeds up to 1900 Mbps.

Highlights

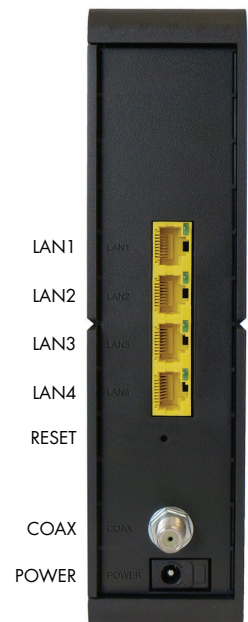
- DOCSIS 3.0/2.0/1.1 maximizes performance and compatibility
- 8 downstream and 4 upstream cable modem channels for downstream data rates up to 343 Mbps and upstream data rates up to 123 Mbps
- Advanced 11ac 3x3 wireless for very high performance
 - Up to 600 Mbps* at 2.4 GHz with Broadcom TurboQAM
 - Up to 1300 Mbps* at 5.0 GHz with Dynamic Frequency Selection (DFS) included and on; up to 488 Mbps maximum with DFS off**
 - 2.4 and 5.0 GHz radios, each with Broadcom BCM4360, can operate concurrently
 - AnyBeam at both 2.4 and 5.0 GHz. AnyBeam beamforming focuses the wireless signal on the wireless client even if that smartphone, computer, or other WiFi-capable device doesn't have beamforming technology.
 - Explicit beamforming at 5.0 GHz provides enhanced beamforming for wireless clients that include explicit beamforming capability
 - Uses three internal dual-band antennas orthogonally placed
 - Transmit power near but not above FCC limits on per channel power
- 1 GHz Full-band Capture Digital Tuning for high performance and flexible choice of data channels by service providers
- 4 GigE Ethernet ports with Auto Negotiation and Auto MDIX
- Model 5363's Ethernet and Wireless capabilities are standards based and work with all popular Ethernet-capable and WiFi® wireless devices
- IPv6/IPv4
- SNMPv1/v2c/v3 and TR-069 network management
- Enhanced RF Immunity
- Integrated MoCA reject filter
- Supports multiple SSIDs
- WiFi pairing button (WPS) for easy WiFi setup
- Advanced firewall security with parental controls, set through user's browser or by the service provider
- Unique factory-set security settings shown on bottom label (These are user-changeable using a browser.)
- Easy installation
- User-friendly diagnostics
- Broadcom BCM3383 cable modem IC
- Two year warranty on parts and labor



Front Panel



Back Panel



Makes it easy to add WPS-compatible wireless devices to Model 5363's wireless network

General

| | | |
|-------------------------------|---|--|
| Cable Modem Standards: | DOCSIS 3.0/2.0/1.1 | |
| Cable Interface: | F-Connector, female, 75Ω | |
| Local Area Network Interface: | Four 10/100/1000 Ethernet LAN Ports, 802.11 a/b/g/n/ac wireless | |
| Gateway: | DHCP, NAT, VPN tunneling, static routing and dynamic IP routing (RIPv1, RIPv2), SPI firewall with DoS (Denial of Service) protection and intrusion detection, IP filtering, port filtering, URL filtering, full suite of ALGs, UPnP IGD 1.0 WiFi Homespot, L2oGRE tunneling | |
| Wireless LAN: | <ul style="list-style-type: none"> • 802.11a/b/g/n/ac WiFi • 802.11e QoS (Quality of Service) • WMM admission control | <ul style="list-style-type: none"> • Up to 16 SSIDs (8 per radio) • AnyBeam for implicit beamforming with 802.11 a/b/g/n • Explicit beamforming with 802.11ac |
| Security: | <ul style="list-style-type: none"> • WEP-64/128 • WPA-PSK • WPA • WPA2 | <ul style="list-style-type: none"> • TKIP • AES • 802.1x • 802.11i (pre-authentication) |
| WiFi Pairing: | WPS 2.0 or via browser-based graphical user interface | |
| WiFi: | 2.4 Ghz | 5 GHz |
| - Receiver Sensitivity: | -85 dBm at 11 Mbps -74 dBm at 54 Mbps -73 dBm at MCS7(BW:20MHz) -68 dBm at MCS7(BW:40MHz) | -73 dBm at 54 Mbps -72 dBm at MCS7(BW:20MHz) -69 dBm at MCS7(BW:40MHz) -62 dBm at MCS9(BW:80MHz) |
| - Transmit Power: | +26.5 dBm HPA with 3x3 MIMO antenna array | +24 dBm HPA with 3x3 MIMO antenna array |
| Operating Temperature: | 32° F to 104° F (0° C to 40° C) | |
| Storage Temperature: | -22 °F to 158 °F (-30 °C to 70 °C) | |
| Operating Humidity: | 5 to 95% R.H. (non-condensing) | |
| Size: | 8.125" tall x 7.5" x 2" (20.6 x 19 x 5 cm) | |
| Regulatory: | FCC 15B, FCC 15C, FCC 15E, UL 60950-1 US safety, RoHS | |
| Power Adapter: | Input: 110/220 VAC, 50/60 Hz, Output: 12VDC/1.5 Amp. US plug standard. Other plugs available. | |
| Warranty: | Two years on parts and labor | |
| Package Contents: | Cable Modem/Router, power cube, Ethernet cable, Quick Start flyer | |

DOCSIS Cable Modem Data

| | Downstream | Upstream |
|---------------------------------|--|--|
| Modulation: | 64 or 256 QAM | QPSK and 8, 16, 32, 64, 128, 256 QAM |
| Maximum PHY Rate: | <u>@256 QAM</u> at 5.36 Msym/s: 343.072 Mbps (8 channels) 42.884 Mbps (single channel) | <u>@256 QAM</u> at 6.4 MHz: 122.8 Mbps (4 channels) 30.72 Mbps (single channel) |
| Maximum Bandwidth Required: | 6MHz x 8 channels | n/a |
| Channel Width: | n/a | 200 kHz, 400 kHz, 800 kHz, 1.6 MHz, 3.2 MHz, 6.4 MHz |
| Symbol Rate: | 64 QAM 5.057 Msym/s; 256 QAM 5.361 Msym/s | 160, 320, 640, 1280, 2560, 5120 ksym/s |
| Operating Level Range: | -15 to +15 dBmV | A-TDMA: 8 to 54 dBmV (32QAM, 64QAM) 8 to 55 dBmV (8 QAM, 16 QAM) 8 to 58 dBmV (QPSK) S-CDMA: 8 to 53 dBmV (all modulations) |
| Frequency Range (edge to edge): | 88 to 1002 MHz | 5 to 42 MHz |
| Impedance: | Input: 75 Ω (nominal) | Output: 75 Ω (nominal) |

* Speeds shown are the maximum wireless speeds derived from IEEE 802.11. Actual speeds will vary.

** Zoom is in the process of certifying this cable modem with the FCC for the DFS bands. Until certification occurs, DFS cannot be turned on in the USA.



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