Model 5363

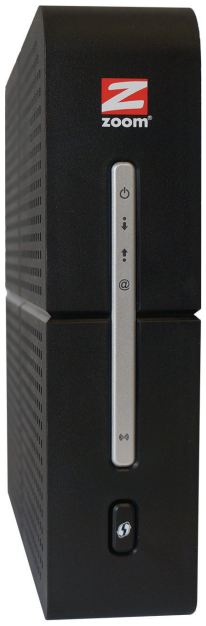
DOCSIS 3.0

# Cable Modem/Router with High-Performance Wireless 802.11ac

Zoom Model 5363 integrates a DOCSIS 3.0 8x4 cable modem and a 4-port GigE router that features the fastest wireless 802.11ac technology available today. 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

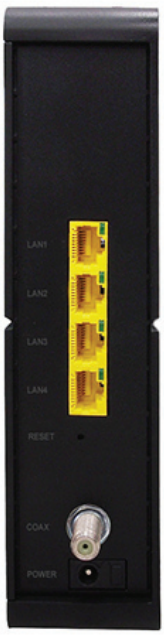
- DOCSIS 3.0/2.0/1.1 maximizes performance and compatibility
- 8 downstream and 4 upstream cable modem channels for downstream data rates up to 343 Mbps and upstream data rates up to 123 Mbps
- Advanced 11ac 3x3 wireless for very high performance
  - Up to 600 Mbps at 2.4 GHz with Broadcom TurboQAM
  - Up to 1300 Mbps at 5.0 GHz with dynamic frequency selection included and on; up to 488 Mbps maximum with dynamic frequency selection off
  - 2.4 and 5.0 GHz radios, each with Broadcom BCM4360, can act 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 provider
- 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
- Wi-Fi pairing button (WPS) for easy Wi-Fi setup
- Advanced firewall security with parental controls, set through user's browser or by 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 Broadcom BCM4360 wireless ICs, one for 2.4 GHz and one for 5.0 GHz




**Front Panel**


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

**Back Panel**



# Specifications

## General

| | |
|---|---|
| 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 |
| Wireless Interface: | 802.11 a/b/g/n/ac Wi-Fi compatible 3x3 with AnyBeam for both 2.4 and 5.0 GHz, explicit beamforming for 5.0 GHz |
| Dimensions: | 8.2 x 7.4 x 2 inches (208 x 189 x 51 mm) |
| 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. |

## Environmental

| | |
|---|---|
| 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) |

## Network

| | |
|---|---|
| Gateway: | DHCP, NAPT, 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 Wi-Fi Homespot, L2oGRE tunneling |
| Wireless LAN: | 802.11a/b/g/n/ac Wi-Fi, 802.11e QoS (Quality of Service), WMM admission control, Up to 8 SSIDs per radio |
| Security: | WEP-64/128, WPA-PSK, WPA, WPA2, TKIP, AES, 802.1x, 802.11i (pre-authentication) |
| Wi-Fi Pairing: | WPS 2.0 or via browser-based graphical user interface |

## DOCSIS Cable Modem Data

| | **Downsteam** | **Upstream** |
|---|---|---|
| Modulation: | 64 or 256 QAM | QPSK and 8, 16, 32, 64,128, 256 QAM |
| Maximum PHY Rate: | @256 QAM at 5.36 Msym/s:<br>343.072 Mbps (8 channels)<br>42.884 Mbps (single channel) | @256 QAM at 6.4 MHz:<br>122.8 Mbps (4 channels)<br>30.72 Mbps (single channel) |
| Maximum Bandwidth Required: | 6MHz * 8 channels | |
| Channel Width: | | 200 kHz, 400 kHz, 800 kHz, 1.6 MHz, 3.2 MHz, 6.4 MHz |
| Symbol Rate: | 64 QAM 5.057 Msym/s;<br>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)<br>8 to 55 dBmV (8 QAM, 16 QAM)<br>8 to 58 dBmV (QPSK)<br>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) |

## Wi-Fi

| | **2.4 Ghz** | **5 GHz** |
|---|---|---|
| Receiver Sensitivity: | -85 dBm at 11 Mbps<br>-74 dBm at 54 Mbps<br>-73 dBm at MCS7(BW:20MHz)<br>-68 dBm at MCS7(BW:40MHz) | -73 dBm at 54 Mbps<br>-72 dBm at MCS7(BW:20MHz)<br>-69 dBm at MCS7(BW:40MHz)<br>-62 dBm at MCS9(BW:80MHz) |
| Transmit Power (near but not above FCC limits on per-channel power): | +26.5 dBm HPA* with 3x3 MIMO antenna array | +24 dBm HPA* with 3x3 MIMO antenna array |

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