Model: M3600 2.0

# BE3600 Gigabit Mesh Wi-Fi 7 System




Datasheet

# Highlights

A dual-band Wi-Fi 7 router with an aggregate of 3.6 Gbps speed and three Gigabit ports, catering to large home with Gigabit Internet access.

- 4-Stream Dual-Band Wi-Fi 7
- 2882 Mbps + 688 Mbps Wi-Fi
- Smart Antenna for Wider Coverage
- 3× Gigabit Ethernet Ports
- Cudy Mesh, VPN Server and Client
- Cudy App, Cloud Control

Actual wireless data throughput will vary as a result of network conditions, client limitations, and environmental factors including building layout, obstacles, and client location.

# Package Content

- M3600
- Power Adapter
- Ethernet Cable
- Installation Guide

# Hardware Specs

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|---|---|---|
| **Model Version** | M3600 2.0 | |
| **CPU** | CPU Details | 1.2 GHz Dual-Core |
| **Memory/Storage** | Flash/ROM | 128 MB (1 Gbit) NAND |
| | DDR/RAM | 256 MB (2 Gbit) DDR3 |
| **Wireless** | MLO Speeds | 3570 Mbps |
| | 5 GHz Wi-Fi Speed | 2882 Mbps |
| | 2.4 GHz Wi-Fi Speed | 688 Mbps |
| | 5 GHz Wi-Fi Streams | 2 Spatial Streams |
| | 2.4 GHz Wi-Fi Streams | 2 Spatial Streams |
| | Wi-Fi Antennas | 5× Internal |
| | FEM or PA/LNA | 5 GHz: 2× External, 2.4 GHz: 2× Internal |
| | Beamforming | True |

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| **Wireless** | Range Performance | Max: 220 m (722 ft)<br>Tested in open-space environments with minimal interference. Actual WiFi range may vary depending on layout and wall materials. Refer to the Wall Performance specifications for placement suggestions. |
| | Wall Performance | Two wooden walls with thickness < 10 cm (4")<br>One concrete wall with thickness < 20 cm (7") or two concrete walls with thickness < 10 cm (4") |
| | Indoor Coverage Reference | 2 Pack: 200 m² (2100 sq ft)<br>3 Pack: 270 m² (2900 sq ft)<br>Applied to wireless backhaul situation. Place in the center of each floor, with a maximum of three obstacles to each room. |
| **Interfaces** | Gigabit RJ45 Ports | 3 |

# Hardware Specs

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|---|---|---|
| **Interfaces** | Ethernet Notes | 1× WAN port, the rest are LAN ports |
| **Buttons and LEDs** | LED | System, Speed/Link/ACT of Ethernet Port |
| | Physical Buttons | WPS Button, Reset Button |
| **Power** | Power Input Type | DC Jack |
| | Power Methods | DC |
| | Power Input | 12V⎓1A |
| | Max Power Consumption (W) | 12W |
| | Power Adapter In the Box | Input: 100-240V~, 50/60Hz<br>Output: 12V⎓1A |
| **Reliability** | Environment | • Operating Temperature: 0 ℃ ~ 40 ℃ (32 ℉ ~104 ℉)<br>• Storage Temperature: -40 ℃ ~ 70 ℃ (-40 ℉ ~ 158 ℉)<br>• Humidity: 10% ~ 90% non-condensing<br>• Storage Humidity: 5% ~ 95% non-condensing |

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| **Certifications** | FCC, CE | |
| **Mechanical** | Installation | Desktop |
| | Dimension | Φ110×154.5 mm<br>Φ4.33×6.08 inches |
| **Package Content** | • M3600<br>• Power Adapter<br>• Ethernet Cable<br>• Installation Guide | |
| **Ordering Information** | Retail Package Dimension | • 1-Pack: 145×130×265 mm<br>5.71×5.12×10.43 inches<br>• 2-Pack: 330×130×265 mm<br>12.99×5.12×10.43 inches<br>• 3-Pack: 380×130×265 mm<br>14.96×5.12×10.43 inches |
| | Units per Carton | • 1-Pack: 16<br>• 2-Pack: 8<br>• 3-Pack: 4 |

# Hardware Specs

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|---|---|---|
| **Ordering Information** | Carton Dimension | • 1-Pack: 57×56×26 cm 22.44×22.05×10.24 inches<br>• 2-Pack: 53.6×40×28.7 cm 21.1×15.75×11.3 inches<br>• 3-Pack: 55×54.5×35.3 cm 21.65×21.46×13.9 inches |

# Software Specs

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|---|---|---|
| **Model Version** | M3600 2.0 | |
| **Wireless** | Wi-Fi Standards | Wi-Fi 7 |
| | Max Wi-Fi Modulation | 4K-QAM |
| | Wi-Fi Efficiency | • MLO<br>• MRU<br>• Puncturing<br>• OFDMA<br>• MU-MIMO<br>• BSS Color |
| | Max Capacity | 128 |
| | Recommended Client Upper Limit | 70 |
| | Wi-Fi Channel Width | Auto/20/40/80/160 MHz |
| | Wi-Fi Security | WPA/WPA2/WPA3 |
| | Guest Network | 2.4 GHz, 5 GHz |
| | Separate Client | True |
| | WPS | True |

# Software Specs

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|---|---|---|
| **General** | Operation Modes | • Wi-Fi Router<br>• Access Point<br>• Range Extender<br>• WISP<br>• Client |
| | Mesh | Cudy Mesh |
| | Mesh Backhaul | • Wireless Backhaul<br>• Wired Backhaul |
| | Multi-Band Backhaul | True |
| | WAN Mode | • DHCP<br>• Static IP<br>• PPPOE<br>• PPTP<br>• L2TP |
| **Network** | QoS | • Per-User Rate Limiting<br>• Guest Network Rate LImiting |
| | DHCP | • Address Reservation<br>• DHCP Client List<br>• Server |
| | IP Versions | IPv4/IPv6 |

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| **Network** | IPv6 Protocols | • Relay<br>• Dynamic (SLAAC/DHCPv6)<br>• Static (Fixed IP)<br>• Passthrough<br>• 464XLAT<br>• MAP-E<br>• DS-Lite |
| | Multicast | True |
| | IPTV/VLAN | • Bridge<br>• Tag VLAN<br>• VoIP VLAN<br>• IPTV VLAN |
| | TTL Customization | • Extend<br>• Spoof<br>• Custom |
| | IGMP | • IGMP Proxy<br>• IGMP Snooping |
| | Forwarding | • Port Forwarding<br>• Port Triggering<br>• UPnP<br>• DMZ |

# Software Specs

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|---|---|---|
| **Network** | Firewall | • SPI Firewall<br>• DoS Protection<br>• Block PING |
| | Application Layer Gateway | • IPSec Passthrough<br>• L2TP Passthrough<br>• PPTP Passthrough<br>• FTP Passthrough<br>• TFTP Passthrough<br>• H323 Passthrough<br>• SIP Passthrough<br>• RTSP Passthrough |
| **Utilities** | VPN Server | • WireGuard<br>• OpenVPN<br>• IPsec<br>• Zerotier<br>• PPTP<br>• L2TP |
| | VPN Client | • WireGuard<br>• OpenVPN<br>• IPsec<br>• Zerotier<br>• PPTP<br>• L2TP |

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| **Utilities** | VPN Performance | • OpenVPN Client (UL/DL): 88.6 / 99.1 Mbps<br>• OpenVPN Server (UL/DL): 90.2 / 88.7 Mbps<br>• WireGuard Client (UL/DL): 185 / 213 Mbps<br>• WireGuard Server (UL/DL): 213 / 189 Mbps |
| | DNS Options | • DNS over TLS<br>• Manual DNS<br>• Rebind Protection<br>• Override Clients' DNS |
| | DNS over TLS Providers | • Cloudflare<br>• Google<br>• Quad9<br>• Custom |
| | Wake on LAN | True |
| | Online Detection | True |
| **Management** | Parental Controls | • Profiles Settings<br>• Offline Time<br>• Online Time<br>• Pause the Internet<br>• Web Filter |

# Software Specs

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|---|---|---|
| **Management** | All Devices Management | • Wi-Fi Time Schedule<br>• MAC Filter<br>• IP/MAC Binding |
| | Per-Devices Management | • Internet On/Off<br>• VPN On/Off<br>• Online Time Schedule<br>• Device Rename |
| | Content Management | • Domain Filtering<br>• IP Filtering |
| **System** | LED Control | True |
| | Local Control Method | • Config Web Page<br>• App Control |
| | Remote Control Method | • Config Page via HTTPS<br>• App Control<br>• TR069/TR098/TR111/TR143/TR181/TR369 |
| | Firmware Upgrade | • Local Update<br>• App (Over the Air)<br>• Online Update |
| | Reliability | • Timed Reboot<br>• Backup and Restore |
| **System** | Diagnostic Tools | • Diagnosis<br>• Ping<br>• Traceroute<br>• NSLookup<br>• System Log |

# Software Specs

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|---|---|---|
| **System** | Languages | • English<br>• Bengali<br>• Catalan<br>• Czech<br>• German<br>• Greek<br>• Spanish<br>• French<br>• Hebrew<br>• Croatian<br>• Hungarian<br>• Italian<br>• Japanese<br>• Khmer<br>• Korean<br>• Dutch<br>• Norwegian<br>• Polish<br>• Portuguese<br>• Romanian<br>• Russian<br>• Slovak<br>• Swedish<br>• Thai<br>• Turkish<br>• Ukrainian<br>• Vietnamese<br>• Simplified Chinese<br>• Traditional Chinese |

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| **Dashboard** | Panel | • Internet Status<br>• Mesh Status<br>• Devices Management<br>• WAN Status<br>• LAN Status<br>• WISP Status<br>• Wi-Fi Status<br>• VPN Status<br>• DHCP Server Status<br>• System Version |
| | Charts | • Mesh Topology<br>• Internet Speed<br>• WISP Speed<br>• Wi-Fi Speed |