

DATACOM



DM955

WIRELESS ROUTER

DATASHEET

DM955

Dual Band Wireless AC1200 Gigabit Router

WIRELESS GIGABIT ROUTER WITH 4 HIGH PERFORMANCE ANTENNAS FOR LONG REACH WIFI

DM955 with dual band 802.11ac Wi-Fi technology provides a reliable and extremely fast network for its users. The 2.4 GHz band offers speeds of up to 300Mbps, perfectly supporting everyday tasks such as e-mails and web browsing, while the 5GHz band offers throughput of up to 867Mbps, ideal for UHD video streams and online games.

This Datacom wireless router has four external antennas that emit Wi-Fi signals to all rooms in the customer's environment. DM955 eliminates shadow zones and keeps the user connected with a fast Wi-Fi access, whether in the living room, kitchen, bedroom or any other room in the home.

It supports a mesh network solution through the EasyMesh standard, expanding the network coverage. In this solution, the DM955 routers connect and distribute the signal forming a single network, providing a high quality signal throughout the environment.

Using MU-MIMO multi-antenna technology, the DM955 operates simultaneously with multiple devices, avoiding congestion and latency problems. This feature ensures that all connected devices gain access to data more quickly, making the user's connectivity experience much more efficient than in traditional wireless networks.

In addition to having advanced wireless technology, the DM955 has a Gigabit Ethernet WAN port for receiving the internet signal and four Gigabit Ethernet LAN ports, allowing the users to directly connect their wired devices and obtain maximum network performance.

DM955 also has the remote management feature through the TR-069 protocol. With this feature, the ISP can manage, through the cloud, all the routers installed at its subscribers. Management by TR-069 allows the ISP to perform diagnostics and tests remotely, reducing operational costs.

- Dual band Wi-Fi 2.4GHz and 5GHz
- Rates up to 1200Mbps:
 - 300Mbps at 2.4GHz
 - 867Mbps at 5GHz
- Four 5dBi antennas
- EasyMesh
- 2x2 MU-MIMO and *Beamforming*
- Band Steering
- Long range Wi-Fi
- Multiple SSIDs
- Gigabit Ethernet WAN
- 4 Gigabit Ethernet LAN ports
- IPv4/IPv6
- UPnP
- DMZ
- WebUi Management
- TR-069 Remote management



FUNCTIONALITIES

WIRELESS (WI-FI)

| Item | Functionality |
|-----------------------|--|
| Operating Frequencies | Dual band: 2,4 GHz and 5 GHz |
| Radio Mode | 2,4 GHz –MIMO 2x2 (two external antennas with 5dBi gain) 5 GHz - <i>Beamforming</i> MU-MIMO 2x2 (two external antennas with 5dBi gain) Band Steering |
| Standards | 2,4 GHz - IEEE 802.11 b/g/n 5 GHz - IEEE 802.11 a/n/ac |
| Bandwidth | 2,4 GHz - 20, 40 with 20/40 MHz coexistence 5 GHz - 20, 40, 80 MHz |
| Operation Channels | 2,4 GHz – 1 to 11 and Auto mode 5 GHz – 36, 40, 44, 48, 149, 153, 157, 161 and Auto mode |
| Transmission Rate | 2,4 GHz – up to 300 Mbps (802.11n) 5 GHz – up to 867 Mbps (802.11ac) |
| Transmission Power | For 2.4 GHz: 18dBm , ~63mW (802.11b) 16dBm , ~39,8mW (802.11g) 16dBm , ~39,8mW (802.11n) For 5 GHz: 17,5 dBm, ~56,3mW (802.11a) 16,5 dBm, ~44,6mW (802.11n) 15,5dBm, ~35,48W(802.11ac) |
| Receiver Sensitivity | For 2.4 GHz: 11b 11M: -83dBm 11g 54M: -73dBm 11n HT20 MCS7: -67dBm 11n HT40 MCS7: -64dBm For 5GHz: 11a 54Mbps:-73dBm 11n HT20 MCS7: -65dBm 11n HT40 MCS7: -61dBm 11ac HT20 MCS7: -59dBm 11ac HT40 MCS7: -54dBm 11ac HT80 MCS9: -51dBm |
| Connected Devices | Up to 60 devices connected simultaneously |
| Security | WEP, WPA2-PSK (AES), WPA-PSK/WPA2-PSK (TKIP/AES) 64/128 bit Enterprise (802.1x) / RADIUS WPS - Wi-Fi Protected Setup |
| Access Control | MAC Permission/Block List |
| QoS | WMM - Wi-Fi Multimedia Tx/Rx Band Control |
| Operation Mode | Bridge or Router |

WAN INTERFACE

| Item | Functionality |
|------------------|--|
| Quantity | 1 |
| Standard | 10/100/1000 Base-T (RJ-45) |
| IPv4 Connections | DHCP Client, PPPoE Client, Static IP |
| IPv6 Connections | SLAAC/DHCPv6 Client, PPPoE Client, Static IPv6 |

LAN INTERFACES

| Item | Functionality |
|------------------|---|
| Quantity | 4 |
| Standard | 10/100/1000 Base-T (RJ-45) |
| IPv4 Connections | DHCP Server, Static IPv4 |
| IPv6 Connections | DHCPv6 Server, SLAAC + Stateless DHCP, SLAAC+RDNSS, Static IPv6 |
| DNS | DNS Proxy |


SOFTWARE

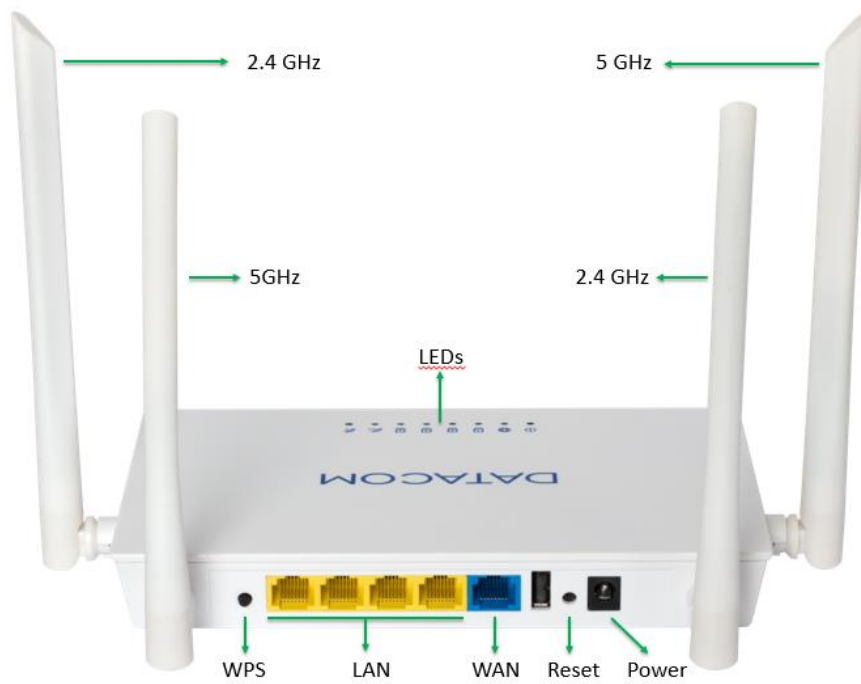
| Item | Functionality |
|------------|--|
| Security | DMZ IP Whitelist UPnP Port Forwarding |
| Mesh | EasyMesh standard support Controller and Agent mode Backhaul EasyMesh through Wi-Fi and / or Cable (hybrid mode)] EasyMesh Routes Agent compatibility: DM955 EasyMesh Controller devices compatibility: DM955, DM986-204 and DM986-414 |
| Management | IPv4 Management via WEB interface (HTTP) TR-069 Remote Management Two levels of access to the WEB interface Configuration Preset Factory configuration restore SNTP IPv4 Ping |
| Switching | VLAN |
| Routing | NAT IPv4 Static Routes |

STANDARDS

| Group | Standards |
|--|---|
| IEEE | IEEE 802.11a: Wi-Fi standard for 5 GHz frequency with a capacity of up to 54 Mbps. |
| | IEEE 802.11b: Wi-Fi standard for 2.4 GHz frequency with a capacity of up to 11 Mbps. |
| | IEEE 802.11g: Wi-Fi standard for 2.4 GHz frequency with a capacity of up to 54 Mbps |
| | IEEE 802.11n: Wi-Fi standard for 2.4 GHz and/or 5 GHz frequency capacity up to 150 to 600 Mbps |
| | IEEE 802.11ac: Wi-Fi standard for 5 GHz frequency capacity up to 1300 Mbps |
| | IEEE 802.11i: 802.11 protocol security standard - WEP/WPA/WPA2 (TKIP/AES) |
| | IEEE 802.1D MAC bridges |
| | IEEE 802.3i 10BASE-T 10Mbit/s (1.25 MB/s) over twisted pair |
| | IEEE 802.3u 100BASE-TX Fast Ethernet at 100 Mbit/s (12.5 MB/s) w/auto negotiation |
| IEEE 802.3ab 1000BASE-T Gbit/s Ethernet over twisted pair at 1 Gbit/s (125 MB/s) | |
| IETF | RFC2131 – Dynamic Host Configuration Protocol |
| | RFC3315 – Dynamic Host Configuration Protocol for IPv6 (DHCPv6) |
| | RFC 2516 – A Method for Transmitting PPP Over Ethernet (PPPoE) |
| | RFC 5072 – IP Version 6 over PPP |
| | RFC 4862 – IPv6 Stateless Address Autoconfiguration |
| | RFC 3633 – IPv6 Prefix Options for Dynamic Host Configuration Protocol (DHCP) version 6 |
| | RFC2865 – Remote Authentication Dial In User Service (RADIUS) |
| | RFC2869 – RADIUS - Support For Extensible Authentication Protocol (EAP) |
| | RFC2030 – Simple Network Time Protocol (SNTP) Version 4 for IPv4, IPv6 and OSI |
| | RFC2929 – Domain Name System (DNS) IANA Considerations |
| | RFC3022 – Traditional IP Network Address Translator (Traditional NAT) |
| RFC6296 – IPv6-to-IPv6 Network Prefix Translation | |
| RFC6970 - Universal Plug and Play (UPnP) | |
| Broadband Forum | TR-069: CPE WAN Management Protocol v1.1 |
| | TR-098: Internet Gateway Device version 1 |
| ANATEL | ANATEL – Act 1120 - Technical Requirements for Electromagnetic Compatibility for the Evaluation of Telecommunication Product Conformity |
| | ANATEL – Act 950 - Requirements for the Evaluation of the Conformity of Telecommunications Equipment with respect to the Aspects of Electrical Safety |

TECHNICAL SPECIFICATIONS

| Hardware | | DM955 5G 1200 |
|----------------------|---------------------|---|
| Dimensions | Height | 28 mm |
| | Width | 202 mm |
| | Depth | 126 mm |
| Operation Conditions | Temperature Range | 0°C to 40°C |
| | Relative Humidity | 5% to 95%, non-condensing |
| Power Supply | Input | 100 Vac to 240 Vac, 50 to 60Hz |
| | Output | 12 Vdc, 1500mA |
| | Average Consumption | < 15 W |
| | Polarity |  |
| Interfaces | WAN | 1x 10/100/1000 Base-T port |
| | LAN | 4x 10/100/1000 Base-T ports |
| | Antennas | 2x 2.4 GHz antennas and 2x 5 GHz antennas |



Note: USB interface is not available in this product version.

ORDERING INFORMATION

| Model | Description |
|---|---|
| DM955 5GT 1200 <i>825.8010.xx</i> | DM955 5GT 1200 - 2.4GHz and 5GHz dual band Wi-Fi router in plastic housing for home use, with 4 Gigabit Ethernet LAN interfaces and 1 Gigabit Ethernet WAN interface. External AC power supply. |



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