

DATAKOM



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.

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
- 2x2 MU-MIMO and *Beamforming*
- 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 – MU MIMO 2x2 (two external antennas with 5dBi gain) 5 GHz - <i>Beamforming</i> MIMO 2x2 (two external antennas with 5dBi gain)
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)
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

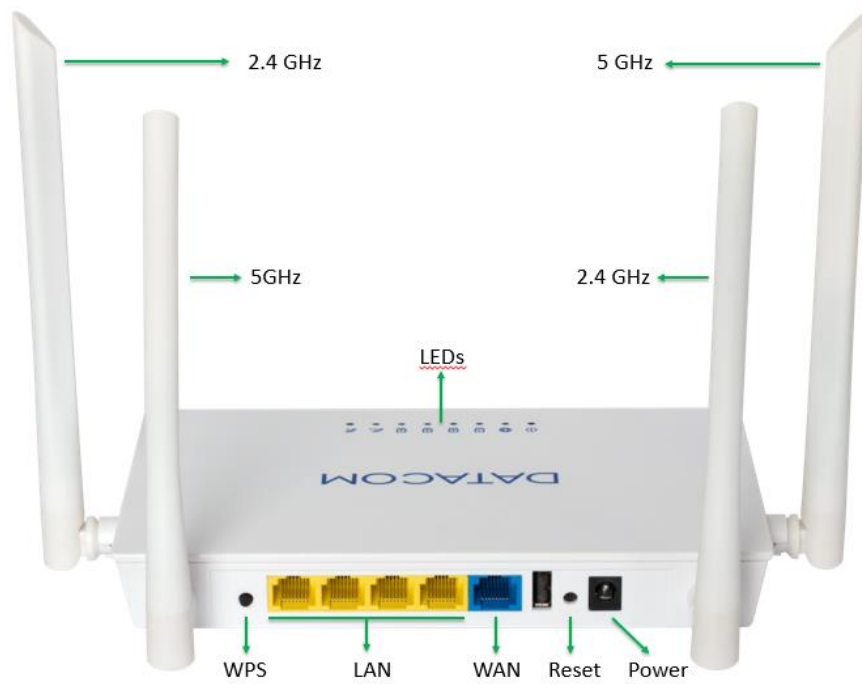
Item	Functionality
Security	DMZ IP Whitelist UPnP Port Forwarding
Management	IPv4 Management via WEB interface (HTTP) TR-069 Remote Management Two levels of access to the WEB interface Factory configuration restore SNTP IPv4 Ping
Routing	NAT IPv4 Static Routes

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 825.8010.xx	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.



DATACOM

Rua América, 1000 | 92990-000 | Eldorado do Sul | RS | Brasil
+55 51 3933 3000
sales@datacom.com.br