All-in-One GateWay

DMSBG 100

Swift and powerful multi-service business gateway for your SME

Introducing the next generation of all-in-one routers, designed to meet the increasing demands of small to medium-sized businesses.

The versatile DMSBG-100 router combines network, data, voice, and security features in a single device, providing consistently high performance across all access technologies.

The DMSBG-100 offers a comprehensive solution that meets all the requirements of small and medium offices, providing everything they need in one single box. It simplifies deployment and management, eliminating the hassle of having to manage multiple devices.

Designed specifically to meet the growing data and voice needs of SOHOs and SMBs, the DMSBG-100 delivers consistently high performance throughout the entire network.

Highlights

- **Top-Notch Processing Architecture**
  4 Core CPU, 2GB of RAM and 8 GB eMMC with upto 5.9 GHz spectrum support enabling additional high-speed 80 and 160 MHz channels for WiFi apart from 20 and 40 Mhz.

- **Accelerated Networking**
  2x2.5GbE SFP ports, 1 GbE WAN port and 4 GbE LAN ports will let you connect to a wide array of devices and the fastest of ISPs.

- **Built-in Asterisk PBX**
  Equipped with the LTS version of asterisk with an exceedingly capable GUI, the DMSBG-100 caters to all your telephony needs with ease.

- **Secure By Default**
  The device uses NFTables to provide in-kernel packet classification that provides protection against unwanted network activity.

- **Adaptative Rules**
  The DMSBG-100 comes with the ability to automatically ban malicious entities and also provides configurable lists that can be used by the user to setup firewalls.

Re-imagined Management Tools

Instead of sticking to the script, the DMSBG-100 comes with a user-friendly GUI that has been designed to be as intuitive and easy to use as possible, providing every configuration option you could possibly need.

Lightning-Fast VPN
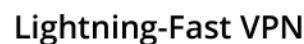
The DMSBG-100 is equipped with WireGuard VPN with advanced cryptography and a user-friendly GUI. With support for up to 50 peers, it can function not only as a client but also as a server. It also offers policy-based routing to enable traffic to be routed to different servers based on source and destination IP addresses or domain names.

Performance Monitoring

Netdata is pre-installed on the DMSBG-100 and can be accessed from the Difuse GUI. Netdata is a powerful and flexible monitoring solution that provides real-time insights into the performance and health of servers, applications, and systems. It collects and visualizes comprehensive metrics on resource utilization, network traffic, application performance, and more, using an intuitive and responsive web interface.

Unbeatable Connectivity

Apart from the WAN ports and LAN interfaces that come with the DMSBG-100, the optional LTE module can be added for fail-over WAN so that you are always covered in case your ISP has a network incident.

Content Filtering & Ad Blocking

The DMSBG-100 provides auto-updated domain-based block lists to stop unwanted ads and malicious requests. Users can add sites to block and all DNS requests are recorded and can be queried by the admin. The panel also allows easy exporting of

Interplanetary Files

IPFS is a decentralized peer-to-peer file sharing protocol that allows users to share and access files without relying on a central server. It offers increased security, faster download speeds, and immutability for shared files. In comparison, commercial file sharing services are centralized and may have limitations in terms of security and speed. You can share files to anyone free without any limitations.

Traffic Limiting and Shaping

QoS and SQM are features that help make your internet work better. QoS makes sure important things like video chat and online gaming get priority, while SQM helps prevent lag. This makes the internet connection faster and more stable for activities like video chat and online gaming.

Straightforward VoIP

The DMSBG-100 comes with Asterisk LTS and a user-friendly GUI for configuring extensions, trunks, IVRs, etc. It has recording and call monitoring features and even allows to use your extensions on any device outside the network without using a VPN
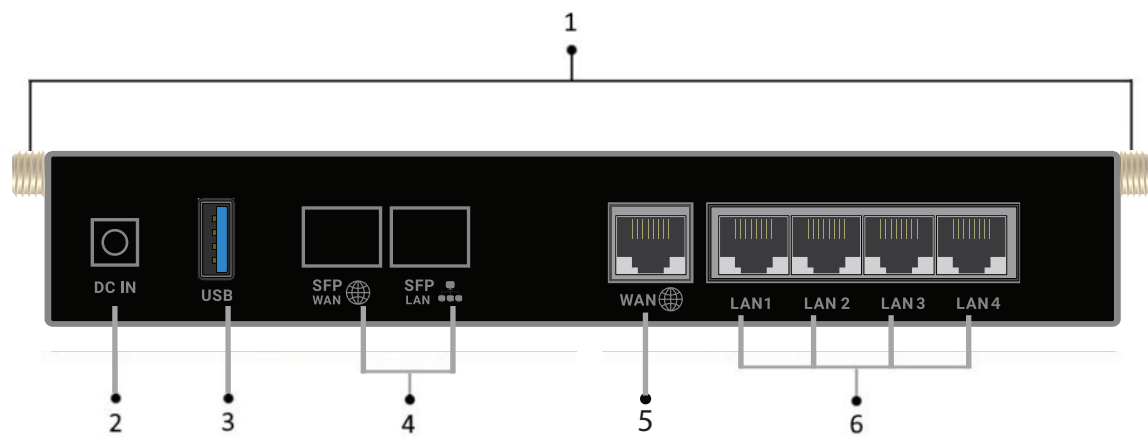
Hardware Overview

Front
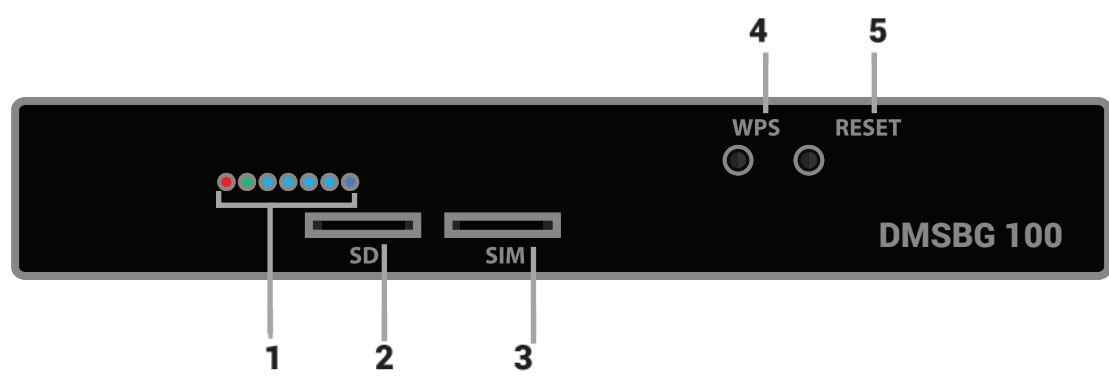
1	ON/OFF indicator	2	SD Card Slot	3	SIM Card Slot
4	WPS Button	5	RESET Button		

Rear

1	Wi-Fi Antenna Connectors	2	Power Connector	3	USB 3.0
4	SFP Interface Connectors	5	WAN Interface Connector	6	LAN Interface Connectors

Specifications

	DMSBG 100	DMSBG 100-4G	DMSBG 100-4G SFP
Interfaces and Modules			
1 Gigabit Ethernet RJ45 WAN	1	1	1
2.5 Gigabit Ethernet RJ45 WAN	-	-	1
1 Gigabit Ethernet RJ45 Internal Ports	4	4	4
2.5 Gigabit Ethernet RJ45 Internal Ports	-	-	1
Cellular Modem	-	1	1
Wireless Interface Dual Radio (2.4GHz/5GHz) 802.11 /a/b/g/n/ax	1	1	1
Antenna Ports (SMA)	8	10	10
USB Ports	1	1	1
SIM Slots (Micro SIM)	0	1	1
Onboard Storage	8 GB	8 GB	8 GB
Included Transceivers	-	-	1
System Performance			
NGFW Throughput		2.4Gbps	
WEB Filtering Throughput		2.0Gbps	
System Performance and Capacity			
IPv4 Firewall Throughput (1518 / 512 / 64 byte, UDP)		2.4 Gbps	
Firewall Latency (64 byte, UDP)		2.97 µs	
Firewall Throughput (Packet per Second)		7.5Mpps	
Concurrent Sessions (TCP)		800 000	
New Sessions/Second (TCP)		30 000	
Firewall Policies		2000	
IPsec VPN Throughput (512 byte) [1]		2.3 Gbps	
Wire Guard VPN Throughput		700 Mbps	
Max IPSec VPN Tunnels		50	

Technical Specification	
CPU	Quad-core 1.8 GHz
Processing Power	18,000 DIPS
Memory	LPDDR3 2GB
Antenna type	Omnidirectional high-gain dipole (2.4 GHz/5 GHz)
Size (HxW)	100.5 x 148mm
AC adapter input voltage	12V/2A with DC in
Buttons	1x Reset Switch, 1x WPS Button
Operating environment	• 5°C to 40°C (40°F to 104°F) • 8% to 80% RH
Storage environment	• -20°C to 60°C (-5°F to 140°F) • 5% to 95% RH
Maximum operating altitude	5,000 m (16,400 ft)

Certifications and Packaging

Certification	Wi-Fi Certified, CE, FCC, WPA ETC
Environmental safety	RoHS Compliant
Package content	• DMSBG-100 main unit • AC power adapter • RJ-45 LAN cable • Quick Installation Guide
Warranty	1 year

Note: Model specifications are subject to change without notice.

1. Performance figures are obtained through internal testing by Difuse. Actual performance may vary depending on the testing environment, usage, and configuration.

2. WiFi speeds are highly subject to local wireless regulation.

3. All Unlimited* provisions mean that we are not artificially limiting your devices capabilities in any way. System configurations are subject to a multitude of other factors.

IRIDIA SOLUTIONS PRIVATE LIMITED.

DMSBG-100 series