



MEG-50 PLATFORM

The **Benu Networks MEG-50 platform** is designed for fixed and mobile broadband operators deploying scalable and intelligent Service Provider Wi-Fi (SP Wi-Fi) service offerings. The MEG-50 is ideal for small to medium deployments for Community Wi-Fi, HotSpot 2.0, and Wi-Fi integration into the 3G/4G packet core for residential and enterprise hotspots. The MEG-50 is designed to address scalable Layer 2 tunneling, Layer 3 session processing, and subscriber management.



The MEG-50 is a 2 Rack Unit (RU) chassis supporting AC and DC power supplies that are 1+1 redundant and hot swappable. The platform supports integrated 5x10GE interfaces using standard small form-factor pluggable plus (SFP+) connectors. The integrated interfaces provide non-blocking 50Gb/s application throughput. Separate Ethernet management and console ports are provided for system administration.

The MEG-50 utilizes state-of-the-art design leveraging multi-core Network Processing Units (NPUs), search processors, and traffic management engines. This design optimizes Benu's software applications for large scale subscriber session control, tunnel processing, QoS, mobility, and Layer 3 services. The platform provides application hardware acceleration for in-line services such as CGNAT, DHCP server, RADIUS proxy, and other network functions needed for SP Wi-Fi deployments.

The MEG-50 is designed to support the following applications:

- Community Wi-Fi (Indoor/Outdoor)
- HotSpot 2.0/Roaming
- Mobile data offload & 3GPP interworking
- Service SSIDs

MEG-50 SPECIFICATIONS

System Throughput	Up to 50Gbps
I/O Interface	5x10GE SFP+ Ports <ul style="list-style-type: none"> • 10GBASE-SR Multi-Mode Fiber SFP+ Specification • 10GBASE-LR Single-Mode Fiber SFP+ Specification • 10GBASE-ER Single-Mode Fiber SFP+ Specification
Console Access	RS-232 Console RJ-45 Ethernet Management
Operating System	BenuOS
Rack Units (RU)	2 RU (19" Rack Mountable)
Dimensions	Height: 3.468" (88.09mm), Width: 16.9" (429.26mm) Depth: 26.23" (666.24mm)
Weight	45 lbs. (20.41 kg) 55 lbs. (24.95 kg) inclusive of shipping materials
Max Power Ratings	AC: 100-240V, 50/60 Hz, 700W Redundant DC: -48V to -60V, 700W, Redundant
Cooling	Front-mounted fan and filter
Safety Agency Certification	EN 60950-1:2011 UI60950-1:2011-12 CAN/CSA-C22.2 No. 60950-1/A1:2011 UL 60950-1/R:2011-12 EN 60950-1/A12:2011
EMC Emissions & Immunity	Emissions: EN 55022 Class A ITE ICES-003 Issue 4 Class A Digital Apparatus (Canada) CFR 47 FCC Part 15 Subpart B Class A (USA) VCCI Class A ITE (Japan) AS/NZS CISPR 22 Class A ITE (Australia) EN 61000-3-2-Limits for harmonic current emissions (equipment current up to and including 16A per phase) EN 61000-3-Limitation of voltage fluctuations and flicker in low voltage supply systems for equipment with rated current up to and including 16A EMC Immunity: EN 55024 EN 300 386 EN61000-4-2; 4-3; 4-4;4-5;4-6;4-11
CB Test Certificate	IEC60950-1/A1:2009
Environmental	Operating Temp: 0°C – 40°C Ambient Storage temp: -40 °C to 70°C Above Sea Level: -200 to 10,000 feet



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