

# Mobile Edge Gateway 50 Platform

Benu Networks' Mobile Edge Gateway 50 (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.



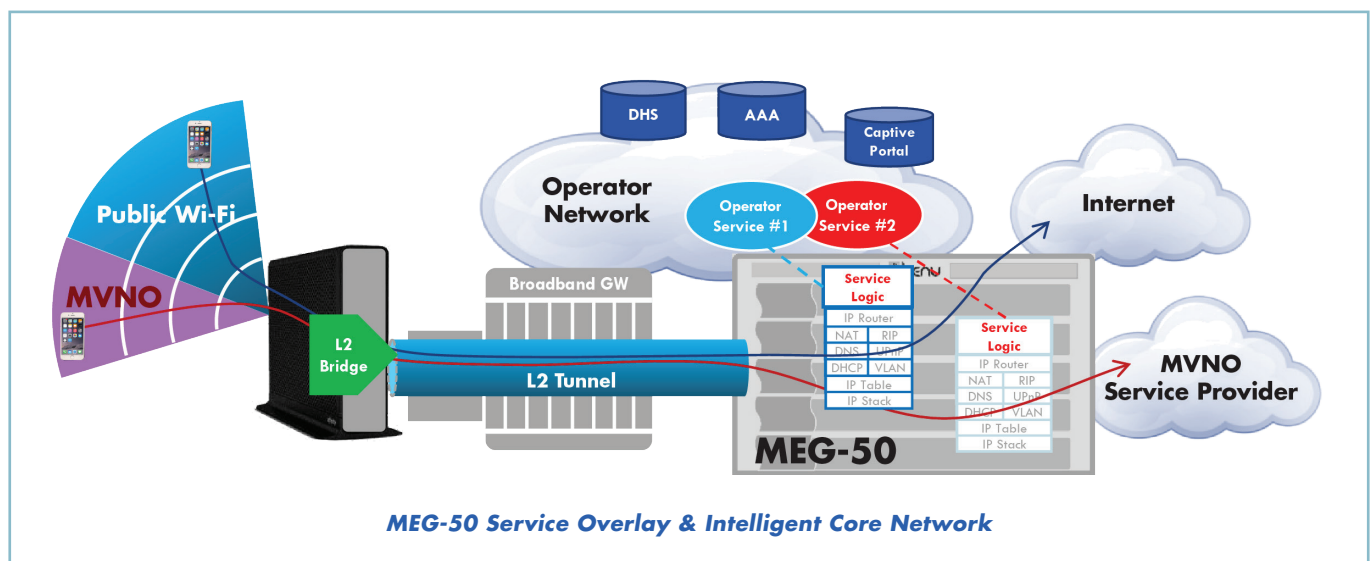
## MEG-50

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 Networks' software applications for large scale subscriber session control, tunnel processing, Quality of Service (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 Service Provider 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 SPECIFICATIONS	
Operating System	BenuOS
System Throughput	Up to 50Gbps
I/O Interface	5x10GE SFP+ Ports <ul style="list-style-type: none"> <li>• 10GBASE-SR Multi-Mode Fiber SFP+ Specification</li> <li>• 10GBASE-LR Single-Mode Fiber SFP+ Specification</li> <li>• 10GBASE-ER Single-Mode Fiber SFP+ Specification</li> </ul>
Console Access	RS-232 Console, RJ-45 Ethernet Management
Rack Units (RU)	2 RU (19" Rack Mountable)
Cooling	Front-mounted fan and filter
CHASSIS DIMENSIONS	
Height (H) / Width (W) / Depth (D)	H: 3.468" (88.09mm) / W: 16.9" (429.26mm) / D: 26.23" (666.24mm)
Weight	45 lbs. (20.41 kg) / 55 lbs. (24.95 kg) inclusive of shipping materials
SYSTEM POWER REQUIREMENTS	
Max Power Ratings	AC: 100-240V, 50/60 Hz, 700W, Redundant   DC: -48V to -60V, 700W, Redundant
REGULATORY COMPLIANCE	
Safety	EN 60950-1:2011 UL60950-1:2011-12 CAN/CSA-C22.2 No. 60950-1/A1:2011 UL 60950-1/R:2011-12 EN 60950-1/A12:2011
EMC Emissions	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 SPECIFICATIONS	
Environmental	Operating Temperature: 0°C – 40°C Ambient Storage Temperature: -40°C to 70°C Above Sea Level: -200 to 10,000 feet

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