

Mobile Edge Gateway 100 Platform

Benu Networks' Mobile Edge Gateway 100 (MEG-100) Platform is designed for fixed and mobile broadband operators deploying scalable and intelligent Service Provider Wi-Fi (SP Wi-Fi) service offerings. The MEG-100 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-100 is designed to address scalable L2/3 session processing, mobility and subscriber management.



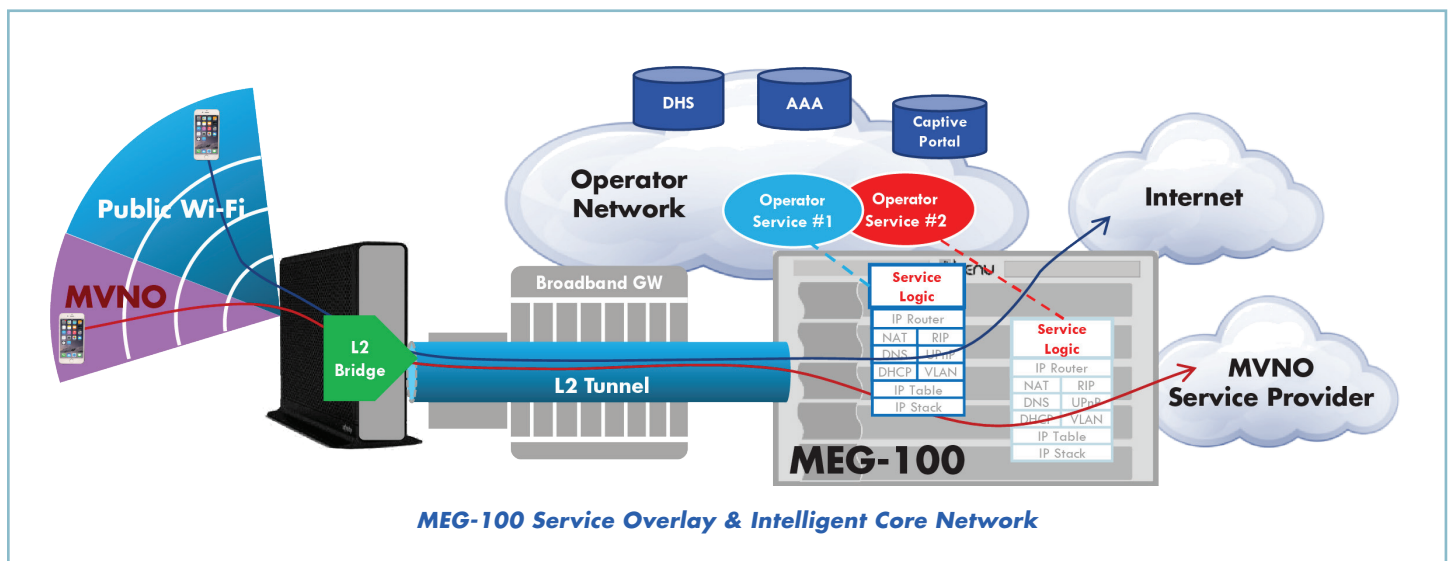
MEG-100

The MEG-100 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 10x10GE interfaces using standard small form-factor pluggable plus (SFP+) connectors. The integrated interfaces provide non-blocking 100Gb/s application throughput. Separate Ethernet management and console ports are provided for system administration.

The MEG-100 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-100 is designed to support the following applications:

- Community Wi-Fi (Indoor/Outdoor)
- HotSpot 2.0/Roaming
- Mobile Data Offload & 3GPP Interworking
- Virtual Customer Premises Equipment (vCPE)



MEG-100 SPECIFICATIONS

SYSTEM SPECIFICATIONS	
Operating System	BenuOS
System Throughput	Up to 100Gbps
I/O Interface	10x10GE SFP+ Ports
	• 10GBASE-SR Multi-Mode Fiber SFP+ Specification
	• 10GBASE-LR Single-Mode Fiber SFP+ Specification
	• 10GBASE-ER Single-Mode Fiber SFP+ Specification
Console Access	RJ-45 RS-232 Console, RJ-45 Ethernet Management (1000base-T) Console
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	50 lbs. (20.41 kg) with one power supply / 60.5 lbs. (24.95 kg) with one power supply and packaging
	55.5 lbs. (25.17Kg) with two power supplies / 66 lbs. (29.94 kg) with two power supplies and packaging
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 55022:2010/AC:2011 Class A ITE (EU)
	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 22:2009/A1:2010 Class A ITE (Australia)
	EN 61000-3-2:2006/A1:2009/A2:2009-Limits for harmonic current emissions (equipment current up to and including 16A per phase)
	EN 61000-3-3:2008 Limitation of voltage fluctuations and flicker in low voltage supply systems for equipment with rated current up to and including 16A
EMC Immunity	EN 55024:1198/A1:2001/A2:2003 ITE-Immunity characteristics
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
	Operating Humidity: 5% - 95% R.H. (Non-condensing)

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