



Mobile Radio Gateway

The **MRG-4** is an intelligently designed portable 4G/LTE Radio Over IP (ROIP) networking system configured with the Vocality RoIP.

A first in its class and designed to provide interoperability between disparate communications networks, the FirstNet™ Ready Vocality RoIP provides a rapidly deployable and easy to use bridge between existing Land Mobile Radio (LMR) networks, amateur and military radios and the FirstNet™ LTE based Push-To-Talk over Cellular (PoC) system.

Each Mobile Radio Gateway - MRG™ includes the RoIP FirstNet™ Ready Gateway, Interoperability Cables, 110/220 vac power supply and cigarette lighter power cable, Secure Tunnel Licenses, Limited Warranty, Lifetime software updates, Port Activations (2 or 4) and (optional) Remote Installation Support.

The **MRG-4** has a custom storage locker and is powered by the 4K Rugged Power Center LifePo4 battery power management system which provides an estimated 14 hours of run time. The **MRG-4** is integrated into a mil-spec case with external antenna connectors and two ethernet network and 4 radio ethernet ports. The **MRG-4** is designed to operate in areas with low cellular signal strength where external antennas are required to improve signal strength. Includes one year of replacement warranty coverage on all hardware.

The **MRG-4** series is available in AT&T and FirstNet™ band 14 as well as Verizon models.

The **MRG-4W** model has an embedded 802.11 wireless access point.

Number of Radios: 4

Battery Technology: The battery is a 12.8 volt 8 AH (100 Watt hour) LiFePO4 bank.

MBK Dimensions: 14.7" x 10.2" x 6.1" **Weight:** 19 lbs.

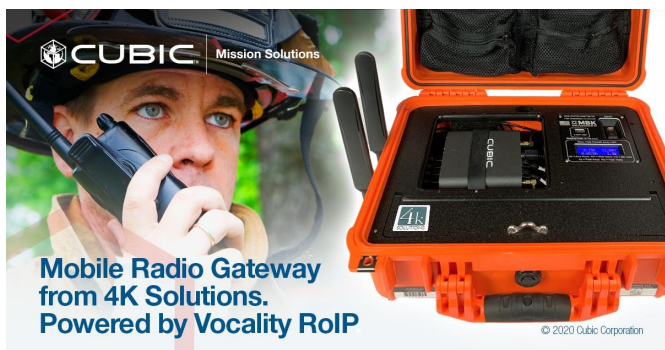
Run Time (estimated): 14 hours

Charging: The **MRG-4** The internal three stage charge controller will accept 14-18 vdc and up to a 60 watt solar panel. The included wall charger will charge the system in approximately 90 minutes. The internal Battery Protection Circuit prevents overcharge, over-discharge, and short circuits. The volt meter continuously displays the system voltage, and reacts to confirm solar or AC charging. The USB driver is independent, switched, and is 3 amps.

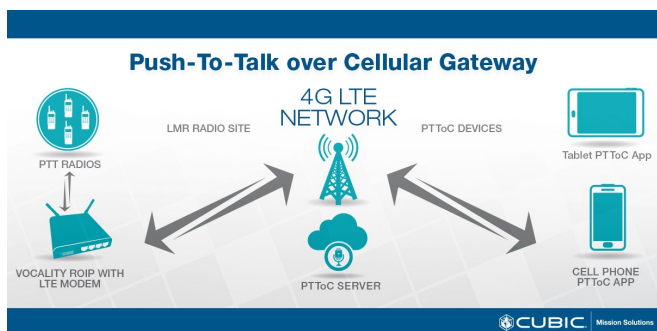


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The **Vocality ROIP** is compatible with a range of dispatch and Push-To-Talk over Cellular apps, the Vocality RoIP is the only RoIP gateway that supports the latest Transport Layer Security (TLS) encryption to deliver secure standards-based tunneling across commercial 4G LTE and dedicated first responder networks. TLS, combined with LTE over-the-air encryption, provides confidence that Push-To-Talk communications remain private.



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Features



RoIP Gateway

Connect push to talk radios into IP infrastructure, for onward connection to VoIP phones, telephone PBX systems, radio dispatch servers and Push-To-Talk over Cellular apps.



Failover

Automatically switch between networks including cellular, Wi-Fi, fixed line and satellite based on user preference, helping to maintain connectivity and reduce service charges.



Integrated 4G LTE

Connect radios via 4G LTE networks for connectivity beyond normal radio range to anywhere in the world.



Radio Dispatch

A lightweight console application with a drag-and-drop user interface providing connectivity between multiple radio devices and ability to create radio talk groups.



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The **Mobile Radio Gateway—MRG™** is ideal for true “grab and go” portability for numerous of projects & missions.

- Airfield Operations
- Anti-Poaching—Wildlife Management
- Emergency Services
- Event & Campus Security
- Facilities Management
- First Responders
- Government & Military
- Oil & Gas
- Port Operations
- Railroad Operations



The **MRG™** supports the following radio types.

- Amateur Radios
- High Frequency (HF) Radios
- Land Mobile Radios (LMR)
- Satellite Radios
- Military Radios



Cellular, MANET and Satellite Systems

The **MRG™** series can be configured to operate over hundreds of cellular carriers globally. Carriers such as AT&T, CBRS, FirstNet™, T-Mobile, Sprint, Verizon and global carriers.



The **MRG™** series require a TCP/IP connection to route radio traffic. The **MRG™** can route over MESH radios from Domo, L3Harris, Persistent Systems, Silvus, Thales and Trellisware.



The **MRG™** series operate over numerous satellite systems to include Iridium Certus™, Inmarsat BGAN, Kymeta, Paradigm MANTA, Thales MissionLINK™ and all vsat systems.

