



Features and Benefits

- **Extend LMR networks over IP infrastructure for active comms regardless of terrain or distance**
- **Bridge dissimilar communication technologies to connect cross-functional teams**
- **Encrypt end-to-end voice & data connections with IPsec & TLS to guarantee privacy & integrity**
- **Implement cutting-edge protocols like MCPTT to prioritize critical communications links**
- **Embedded 4G LTE modem options support major cellular carriers worldwide**
- **Support for over 4,000 LMR makes & models reduces costs because in-place systems are already compatible**
- **Optimal SWaP (Size, Weight, and Power) footprint for flexible deployments**

Vocolity RoIP

Vocolity RoIP products provide users with a range of easy to use small form factor Radio over IP connectivity solutions.

Fully compatible with a wide range of third-party radio dispatch solutions and leading Push-To-Talk over Cellular apps, the Vocolity RoIP allows users to maximize their existing Land Mobile Radio investment.

Connect up to four radio devices from different manufacturers regardless of radio brand, frequency or technology to a single RoIP device, or up to eight devices with the RoIP Connect USB expansion module.

Multiple task-force teams can connect their radios to Vocolity RoIP to create a single unified radio solution both locally, and across the globe using existing IP infrastructures.

The optional Rack Kit allows for up to three Vocolity RoIP devices to be mounted in a standard 19 inch rack and requires only 1U of rack height.

Product Models



Specifications

Mechanical	Vocality RoIP	Vocality RoIP Non-LTE	Vocality RoIP Connect
Form Factor	Standalone enclosure	Standalone enclosure	Standalone enclosure (Requires USB connection to Vocality RoIP)
Operating Conditions (boxed)	-40°C / -40°F to +80°C / 176°F ambient 0-90% RH non condensing Note: if the optional power supply (Vocality RoIP/PSU) is used, this range will be reduced to 0 to 40°C / 104°F	-40°C / -40°F to +80°C / 176°F ambient 0-90% RH non condensing Note: if the optional power supply (Vocality RoIP/PSU) is used, this range will be reduced to 0 to 40°C / 104°F	-40°C / -40°F to +80°C / 176°F ambient 0-90% RH non condensing
MTBF	>100,000 hours at 70°C / 158°F	>175,000 hours at 70°C / 158°F	>128,000 hours at 70°C / 158°F
Depth	4.0 in / 10.16 cm	4.0 in / 10.16 cm	4.0 in / 10.16 cm
Width	4.0 in / 10.16 cm	4.0 in / 10.16 cm	4.0 in / 10.16 cm
Height	1.0 in / 2.54 cm	1.0 in / 2.54 cm	1.0 in / 2.54 cm
Weight	0.6 lbs / 0.27 kg	0.6 lbs / 0.27 kg	0.4 lbs / 0.18 kg
Supported Cellular Bands (modem dependent)	B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B20, B28, B38, B40, B41, B66, B71	N/A	N/A
Certified MCPTT Networks	AT&T FirstNet (FNPTT), TELUS MCPTX	N/A	N/A

Electrical	Vocality RoIP	Vocality RoIP Non-LTE	Vocality RoIP Connect
Optional AC Power Supply	Input 100-240V AC @2A, 50-60Hz (Output 12V DC @6A max)	Input 100-240V AC @2A, 50-60Hz (Output 12V DC @6A max)	N/A
Device Power Requirements	5-35VDC @ 1.5A max	5-35VDC @ 1.5A max	5VDC @0.3A (Powered via USB 2.0 from Vocality RoIP)
Power Consumption	7.5W (max)	7.5W (max)	1.5W (max)

Connectors	Vocality RoIP	Vocality RoIP Non-LTE	Vocality RoIP Connect
DC Power	3-pin locking Power Connector	3-pin locking Power Connector	N/A
Ethernet Ports	2 x RJ45	2 x RJ45	N/A
USB	1 x USB 2.0 Type A	1 x USB 2.0 Type A	1 x USB 2.0 Micro B, 2 x USB 2.0 Type A
Analogue Audio Ports	4 x RJ45	4 x RJ45	4 x RJ45
Quad Serial & GPIO	1 HD26 to 4 DB9 + 1 unterminated cable	1 HD26 to 4 DB9 + 1 unterminated cable	1 HD26 to 4 DB9 + 1 unterminated cable

19 Inch Rackmount Kit



Mechanical	Description
Form Factor	1U 19 in Rack
Width	19.00 in / 48.26cm
Height	1.75 in / 4.45 cm
Depth	12.87 in / 32.69 cm
Weight Unpopulated	2.2 lbs / 1.0 kg

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