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Rugged Operations Kit (VROK)

Features and Benefits

- Rugged and self-contained solution with integrated environmental controls to ensure reliable operation in harsh conditions.
- Battery-powered, ideal for remote locations or power-constrained environments.
- Connect disparate LMR networks, third-party PTT over Cellular apps (PPToC), and dispatch consoles to create a unified communications network.
- Leverage LTE networks to extend the reach of your LMR system for reliable communication, even in areas with limited or no LMR coverage.
- Enhance situational awareness with real-time voice communications and collaboration across different teams, departments and technologies.
- Self-contained cost-effective solution reducing the need for separate LMR and LTE PTToC

The Vocality Rugged Operations Kit (VROK) is a tough single-case Radio over IP (RoIP) solution that allows users to establish unified communications across Land Mobile Radio networks, third-party dispatch solutions, and Push-To-Talk over Cellular services.

The quick-to-deploy battery-powered VROK bridges the gap between disparate communication systems to enhance situational awareness and increase operational efficiency, even in remote or harsh locations.

This innovative solution means that users of over 4000 different Land Mobile Radio types can communicate with Push-To-Talk over Cellular app and third-party dispatch console users locally via the VROK or back to base via a cellular connection and satellite uplink.

Powered by the Vocality RoIP gateway, the VROK allows users to maximize their Land Mobile Radio investment while benefiting from new and emerging cellular and satellite technologies.

Product Models

Specifications

Mechanical	VROK LTE	VROK Non-LTE
Form Factor	Rugged mil-spec self-contained transport case	Rugged mil-spec self-contained transport case
Operating Conditions	-40F to +176F ambient 0-90% RH non condensing Note: if the optional power supply (Vocality RoIP/PSU) is used, this range will be reduced to 0F to 104F	-40F to +176F ambient 0-90% RH non condensing Note: if the optional power supply (Vocality RoIP/PSU) is used, this range will be reduced to 0F to 104F
Depth (Approx.)	10.2 in	10.2 in
Width (Approx.)	14.7 in	14.7 in
Height (Approx.)	10.2 in	10.2 in
Weight (Approx.)	19 lbs	19 lbs
Supported Certified Networks (modem dependent)	AT&T FirstNet, T-Mobile, Verizon, TELUS	N/A
Certified MCPTT/PTT Apps	AT&T FirstNet (FNPTT, FNRR), T-Mobile DC, Verizon Group First Response (GFR), TELUS MCPTX, WAVE PTX and AT&T EPTT	N/A

Electrical	VROK LTE	VROK Non-LTE
LifePo4 Battery Power*	12.8 volt 8 AH battery power (100 Watt hour) Estimated 14 hours of run time	12.8 volt 8 AH battery power (100 Watt hour) Estimated 14 hours of run time
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)
Device Power Requirements	5-35VDC @ 1.5A max	5-35VDC @ 1.5A max
Power Consumption	7.5W (max)	7.5W (max)

*The internal Battery Protection Circuit prevents overcharge, over-discharge, and short circuits.

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

** The included wall charger will charge the system in approximately 90 minutes. The internal three stage charge controller will accept 14-18 vdc and up to a 60 watt solar panel. The volt meter continuously displays the system voltage, and reacts to confirm solar or AC charging.

Partner Information



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