



This product is provided with the backpack, battery and RoIP

VOCALITY RAGE KIT

OVERVIEW

The Radio Access Gateway Extension (RAGE) Kit provides users with a reduced SWaP interoperability communications gateway solution that weighs less than 10lb.

Designed for our First Responders, Military Emergency Response Teams, and users in markets such as: Government Agencies/Municipalities, Education, Healthcare, Hospitality, Energy/Utilities, Construction, Transportation and Manufacturing.

BENEFITS

- ✓ Easily connect PTT Radios and Wi-Fi devices over Cellular networks
- ✓ Reduced SWaP – perfect for airline overhead bins
- ✓ Pre-configured and pre-wired for AT&T's Enhanced Push-To-Talk (EPTT), FirstNet-capable
- ✓ Space for 2 x LMR or tactical handheld portable radios
- ✓ Wide-format, padded carrier fits 15" laptops
- ✓ Pockets for 4G LTE Smartphones running PTT APP
- ✓ Water-repellent coated bag for superior water resistance



MULTI-BEARER

Intelligently switches between cellular, Wi-Fi, and fixed-line networks, to ensure the user has strong connectivity wherever they are.



SECURE

Provides industry standards based secure tunnels and audio traffic encryption.



DISPATCH

Makes it easy for operators to manage radio talk groups anywhere within the Vocality connected network.



ENHANCE

Allows customers to achieve network acceleration and optimization from a single software solution, straight from the box.

TECHNICAL SPECIFICATIONS

MECHANICAL	DESCRIPTION
Form factor	BackPack
Cooling	Heat conduction to case
Operating Conditions	0°C to + 40°C ambient
Dimensions	Height 18 in x Width 11 in x Depth 6.2 in
Volume	1228 cu-in
Weight	9.8 lb

ELECTRICAL	DESCRIPTION
Supply Input Rating:	5-35VDC @ 1.5A max
Consumption	5W (typ)
Optional Power Supply	100-240V AC @2A, 50-60Hz (Output 12V DC @6A max)
PoE Powered Device	Device may be powered over Ethernet, 802.3af Class Device

CONNECTORS	DESCRIPTION
DC Power:	3 way locking Power Connector
ETH1, ETH2 Ethernet Ports	2 x 8-way RJ45
Analogue Audio Ports	4 x 8-way RJ45
Quad Serial & Radio Auxiliary I/O	26-way high-density D-Type female
USB	1 x USB 2.0 Type A (support for LTE and Wi-Fi devices)
Example Compatible 4G LTE Dongles	US (AT&T) Sierra Aircard 313u and Aircard 340u
Internal Expansion Slot	Mini-PCle for LTE or Wi-Fi modules, with external SMA connectors and SIM card slot

FUNCTIONAL	DESCRIPTION
Quad Serial Ports	V.24/RS232 serial
10/100/1000base-T Ethernet Ports	2
Presentation	Auto-MDIX
Formats	IEEE 802.3i (10Base-T), IEEE 802.3u (100Base-TX), IEEE 802.3ab (1000Base-T)
Basic Protocol Support	DNS Client, DHCP Client/Server, SSH
RoIP Protocol Support	Unicast RTP, Multicast RTP, SIP UA
Functionality	Enhance, Secure, Multi-bearer and Dispatch optional modules available
RTP Packet Sampling Rates	Auto
Audio 4-wire Ports	1 x standard (expandable up to 4 by Feature Key)
Interfaces	4-wire activation with COR/PTT, adjustable gain and optional DC bias for direct microphone connection
Compression	G.732.1 (5.3/6.3Kbps MP-MLQ) G.729 Annex A (8Kbps CS-ACELP), G.711 (64Kbps PCM) μ -law or A-law, OPUS variable bit rate codec including HD voice
Impedance	O/P 600 ohms, I/P high/600ohms
Max Input Level (1kHz)	6.0V pk-pk
Max Output Level (1kHz)	7.1V pk-pk
Input-Output Gain (1kHz)	+1.36dB unterminated
COR Activation Range	+0.8 to -48V relative to chassis
Passbands Flatness	+/-1.0dB (300-3300Hz)
Maximum PTT voltage	-24V to +60V relative to GND
Maximum PTT current	+/-120mA
Activation	COR/PTT, Vox, Permanent
Coding delay	Per algorithm
Gain	Input: -12 to +55dB programmable in 1dB steps Output: -57 to +6db programmable in 1dB steps
Radio Auxiliary I/O	6 general purpose programmable I/O signals
Wi-Fi Support	Access Point and Client modes with WPA2. (Requires seperately supplied dongle)




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Vocality RoIP is a product under continuous development. Information correct at time of creation and is subject to change. Version 2.0 July 2018. Please be advised that Secure module licenses will be subject to UK dual-use export control restrictions.