Vocality RoIP Deploy
Radio over IP connectivity solution

The RoIP Deploy offers users an ultra-portable interoperability communications gateway that weighs less than 4.5Kg.

RoIP Deploy is ideal for First Responders and Rapid Response teams that require a simple to use and easy to communication solution. The RoIP Deploy provides connectivity for up to four PTT radios and third-party Wi-Fi devices to 4G LTE networks without the need for additional cellular routers.

The unique water repellent coated backpack design houses the complete solution plus provides space for: up to a 15" laptop or tablet, smartphone running PTT apps and two handheld portable radios.

FEATURES & BENEFITS

- Easily connect PTT Radios and Wi-Fi devices over cellular networks

- Ultra-portable lightweight backpack design – perfect for airline overhead bins

- Compatible with a wide range of Push-to-Talk smartphone apps

SOFTWARE OPTIONS

Secure
Provides industry standards based secure tunnels and audio traffic encryption.
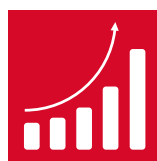
Dispatch
Makes it easy for operators to manage radio talk groups anywhere within the Vocality connected network.

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

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

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Specifications

Mechanical	Description
Form factor	Backpack (*contains associated mounting accessories, battery-to-RoIP power cable, and RoIP with integrated LTE*)
Cooling	Heat conduction to case
Operating Conditions	0℃ to + 40℃ ambient *Inner bag temperature should not exceed 60℃
Dimensions	457.2mm x Width 279.4mm x Depth 157.48mm
Volume	20.1 Litres
Weight	4.4 kg

Electrical	Description
Supply Input Rating	5-35VDC @ 1.5A max
Power Consumption	5W (typ)
Power Over Ethernet	Device may be powered over Ethernet, 802.3af Class 0 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 RoIP Connect, LTE and Wi-Fi devices*)
Example Compatible 4G LTE Dongles	US Sierra Aircard 313u and Aircard 340u
Internal Expansion Slot	Mini-PCIe 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
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 software 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.723.1 (5.3/6.3Kbps MP-MLQ) G.729 Annex A (8Kbps CS-ACELP), G.711 (64Kbps PCM) µ-law or A-law, variable bit rate codec including HD voice
Impedance	Output 600 ohms, Input high/600ohms
Max Input Level	6.0V pk-pk
Max Output Level (1kHz)	7.1V pk-pk
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 separately supplied dongle*)

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