

User Manual



Emergency Services Network USB-C Remote Speaker Microphone (USB-RSM)

Part Number : CA19744

USB RSM Firmware v2.0x

Kodiak Client v10.0.2.22C



Home Office

ESN
Emergency Services Network

UM.1650.1



Introduction

The Sonic Communications (Int) Ltd ESN USB Remote Speaker Microphone (USB-RSM), provides a high-performance audio accessory, designed against the Home Office ESN specification for an ESN compatible 3ES Remote Speaker Microphone, capable of meeting the requirements of users across all the Emergency Services.

The design allows for the USB-RSM to be positioned on the uniform of the wearer by use of the Klick Fast mounting method. This grants the user the ability to position the BT-RSM in the same location that TETRA terminals are currently worn.

Its ruggedised design and IP67 environmental standard, ensures efficient and reliable operation under all conditions, with glove friendly controls positioned in a similar manner to those on current TETRA terminals, to assist user familiarity.

Talkgroups can be selected by using the multi-function rotary control on the Remote Speaker Microphone, reducing the need for the user to access their C1 Smartphone/ Device. In conjunction with the Kodiak ESN App, the USB-RSM will provide voice annunciation of the selected Talkgroup. The rotary control can also be used for volume adjustment.

The USB-RSM has the provision to connect a range of receive only earpiece devices, to allow private reception of incoming radio messages. Connection of the earpiece automatically disables the USB-RSM speaker.

A multi-pin headset connector is also featured on the USB-RSM, which allows the connection of a wide range of operationally specific communications headsets, for use with Motorcycle, Public Order and Firearms helmets, or any application where there is a role specific requirement to remote transmit and receive audio from the remote speaker microphone.

Features

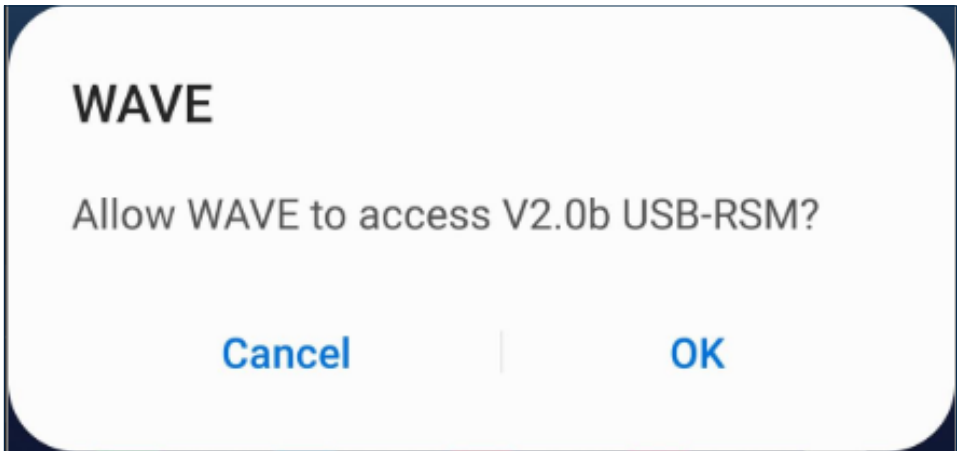
- Conforms to Home Office specification for ESN Remote Speaker Microphone.
- Controls designed to simulate user familiarity of TETRA terminals.
- IP67.
- Different surface finish zones to aid blind use of the controls.
- Provision for lanyard attachment.
- Battery life in excess of 10 hours, with low battery warning feature.
- Features 'voice annunciation' capability in conjunction with the Kodiak App.
- Pressure vented.
- Ribbed large Push-to-Talk button.
- 3x Soft Key function buttons.
- Headset socket to allow role specific communications headsets to be connected.
- USB-C charge & programming connector.
- Receive earpiece side connector.
- 360° rotary encoder for Talk Group selection and Volume control.
- Multi coloured Status LED indicator.
- Emergency button.
- "Klick Fast" compatible mounting stud.



1	Soft Key-1 (KODIAK PTT End Ongoing Call)
2	Push-To-Talk (PTT)
3	Soft Key-2 (Undefined)
4	Function Select/Control (Volume/Talkgroup)
5	Status LED
6	Soft Key-3 (Emergency Button)
7	Earpiece Jack Socket
8	USB C Charge Socket
9	Lemo Headset Connector
10	Docking Station Charge Point

USB Connection

- The USB RSM powers up when it detects a USB connection.
- Connect the coiled cable USB-C plug to the Smart phone, ensuring that the KODIK client application is running.
- The USB RSM LED will show RED as it powers up. After a few moments the following window will appear on the smart phone screen;



- Select OK to complete the USB-RSM connection process.

Note: *V2.0b USB-RSM* represents the FW version number prefix, followed by the device name

Operation

Note: *The following instructions assume that the Smartphone/Device and the USB-RSM are connected and the Smartphone/Device has the Kodiak App, V10.0.2.22C running.*

Push-To-Talk (PTT)

- Press and hold the PTT button and wait for KODIAK grant tones to transmit. Release the button to end the transmission.
- To end an ongoing PTT call and close the talkgroup floor, press the green Soft Key-1

Function Select/Control Knob

Note: *The **Function Select/Control knob** works as both a **Volume control** and **Talkgroup select**. The mode can be selected by momentarily pressing the **Function Select/Control knob** to toggle between modes. Rotating the knob clockwise or anti-clockwise as required will select Volume level or Talkgroup. On Power On, the mode will default to Volume setting.*

Volume Mode: Rotate the knob clockwise to increase the volume level, anticlockwise to decrease. The USB-RSM must be receiving (floor open) for the volume control to function. The USB-RSM will beep x1 to confirm Volume mode when the **Function Select/Control knob** is pressed.

Talkgroup Mode: Rotate the knob clockwise or anti-clockwise to change Talkgroup. The USB-RSM will announce the Talkgroup name from the loudspeaker or receive earpiece. The USB-RSM will beep x2 to confirm Talkgroup mode when the **Function Select/Control knob** is pressed. *After 5 seconds of inactivity, the device will revert back to Volume Mode.*

Status LED

- Blue x1 [Flash]: Connected to a device.
- Blue/Red Flash Battery Status Warning
- Red [Solid]: On charge, when USB-RSM connected to charge point.
- Green [Solid]: Charge complete, when USB-RSM connected to charge point.

Soft Keys

- Soft Key-1: Green Button; KODIAK PTT Ongoing Call End.
- Soft Key-2: Black Button; Currently unassigned with Kodiak App.
- Soft Key-3: Orange Button; Emergency Mode.

Headset Socket

The multi-function headset socket located on the base of the USB-RSM is designed to allow a wide range of compatible communications headsets to be connected. Headsets are available for Motorcycle Helmet use, Public Order, Firearms, Fireground and all operational requirements, where a headset is required to be used, rather than microphone and receive audio being presented from the USB-RSM or into a receive earpiece.

Earpiece Jack Socket

Note: *The USB-RSM earpiece uses a custom design keyed jack connector to ensure a waterproof IP67 connection when the earpiece accessory is plugged in. Alternative or non-approved earpiece accessories may damage the USB-RSM and invalidate the warranty. Sound pressure levels using non-approved earpieces may exceed safe volume levels, resulting in hearing damage.*

Connecting the Earpiece: The earpiece jack connector needs to be orientated with the lock/unlock symbols facing to the front of the USB-RSM, as shown in Fig.1, to allow the jack to be inserted.

- To lock the connector into the USB-RSM, rotate the connector through 90° so the cable runs vertically upwards or downwards.
- To disconnect the earpiece connector, rotate the connector so the lock/unlock symbols face to the front of the USB-RSM (as shown in image). Pull the jack from the socket by holding the body of the plug, not the cable as this may cause undue damage.



Connecting the earpiece jack to the USB-RSM will disconnect the USB-RSM loudspeaker.

Battery

- **Charging:** The USB-RSM is charged using a compatible lead connected to the USB-C charging/programming socket on the base of the USB-RSM. Charge time is approximately 3 hours from fully discharged.
- **Charge Indicator:** The Status LED will show Red while charging and will change status to Green when fully charged.
- **Low Battery Warning:** Battery life is a minimum of 10 hours from fully charged. The low battery warning will generate 3x descending in frequency tones in the loudspeaker, or into an earpiece if connected.

From the first low battery warning, the status LED will flash Red/Blue every 10 seconds and a series of further low battery warning tones will be sent at 5-minute intervals over a 30 minute period, before the USB-RSM powers down and 5 descending tones will be heard from the loudspeaker or in the earpiece, if connected. The USB-RSM will now need to be placed on charge for a minimum of 5 minutes, before it can be powered On again.

Note: *If required, the USB-RSM can be charged whilst powered On and connected to a Smartphone/Device, and will remain On when the charger is removed.*

Accessories

- Acoustic Tube Earpiece: CA19517
- Earhook: CA19515
- Earhangar: CA19516

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