

# EPIC 3 RDI

*Voice Amplifier*



The Scott Safety EPIC 3 Radio Direct Interface (RDI) voice amplifier enhances SCBA facepiece voice intelligibility and delivers clear two-way radio communications when operated with compatible handheld field radios and remote speaker microphones (RSM).

Compatible with all Scott AV, Vision, and Promask series facepieces and breathing apparatus systems, the EPIC 3 RDI provides Scott Safety customers with the safety and operational benefits of enhanced tactical voice communications while extending the value of their SCBA and Personal Protection Equipment.

The EPIC 3 RDI operates directly with compatible Bluetooth®-enabled handheld field radios and matching remote speaker microphones, allowing customers to utilize their existing radio equipment to simplify system operation, deployment logistics, and reduce technology spend.

Integrated noise suppression technology removes environmental ambient noise from the facepiece and radio voice communications, allowing first responders to be clearly heard and understood when communicating with incident victims, team members, incident commanders, and remote dispatchers.

Durable purpose-built design and construction ensures the EPIC 3 RDI will perform long term in high temperature use case environments, enhancing worker safety while minimizing customer maintenance costs.

## FEATURES AND BENEFITS

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**Operates with compatible handheld field radios and remote speaker microphones** Provides clear and loud SCBA and radio voice communications at the incident scene for improved worker situational awareness and safety. Operates with customers' existing radio equipment to reduce technology spend and lower total cost of ownership.

**Works with a broad range of Scott SCBA and PPE equipment** Allows customers with new or legacy Scott SCBA and PPE equipment to enhance fire scene voice communications to further improve worker safety. Helps future proof their Scott SCBA and radio equipment investment.

**User friendly operation and ergonomics** Allows easy system set up, learning, and operation. Provides fast and reliable transitioning between radio / RSM and tactical SCBA-radio communication modes.

**Durable and reliable purpose-built design and construction** Ensures reliable long term operation in demanding high temperature environments. Enhances worker safety while minimizing customer maintenance costs.

**Easy and flexible device configuration** Allows easy device configuration to optimize system performance for specific user and task requirements.

# EPIC 3 RDI VOICE COMMUNICATION SYSTEM

## DATASHEET

FIRE SAFETY STANDARDS	
NFPA	NFPA 1981 approved (2002/2007/2013 Editions). Complies with NFPA 2013 Edition SCBA Sound Transmission Index (STI) acoustic standards for voice intelligibility.
PHYSICAL	
Dimensions	100mm x 60mm x 58mm
Weight	200g with 3 AAA batteries
MICROPHONE	
Model Type	High sensitivity microphone with auto gain control and breath detection technology
Sensitivity	-42dBV typical
Signal to Noise Ratio	60dB
SPEAKER ACOUSTICS	
Diameter	Front: 40mm Rear: 20mm
Maximum Output Level	Front: 94db SPL (@ 1kHz, 30cm) Rear: 91db SPL (@ 1kHz, 10cm)
Frequency Response	Front: 300-4000Hz Rear: 500-4000Hz
COMMUNICATIONS	
Wireless Communications	Bluetooth 2.1 class 2 for Bluetooth voice communications operation with Motorola APX™ series radios and XE series Remote Speaker Microphones (RSM). Use with additional field radio models pending.
POWER	
Power Source	3 - AAA Alkaline batteries, intrinsically safe; compatible with rechargeable NiMH batteries
Battery Life	Designed to deliver 12 hours runtime @ 25% voice amplification duty cycle use and 100% Bluetooth connectivity duty cycle use with compatible Bluetooth-enabled handheld field radios. Runtimes may vary based on field radio Bluetooth configuration.
ENVIRONMENTAL	
High Heat and Flame	500°F / 260° C for 5 min soak with a 10 second flame impingement followed by a 6 inch drop.
Standard Heat and Flame	203° F / 95° C for 15 minute soak with a 10 second flame impingement followed by a 6 inch drop
Radiant Heat	15 kW/m2 for 5 minutes at 7 inches +/- 1 inch from heat source followed by a 6 inch drop
Operating Temp	-30 C to +80 C
Storage Temp	-30 C to +60 C
Humidity	MIL-STD 507.x PROC. II
Intrinsic Safety Rating	UL 913, IS 6th and 7th Editions: Class I, II, III, Division 1, Groups C, D, E, F and G. Ex ia IIB T3 Ga IP66/67; IEC standards IEC 60079-0: 2007-10 Edition 5; and IEC 60079-11: 2011 Edition 6.0
ESD	IEC/EN61000-4-2
Ingress Protection	IP66 and IP67
Drop & Tumble	6 ft drop all 6 sides - 30 minute tumble.

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