

# EPIC 3 RI VOICE COMMUNICATION SYSTEM



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## VOICE CLARITY AND FIELD RADIO INTEROPERABILITY WITH BLUETOOTH® TECHNOLOGY



Communicate clearly and effectively on the fireground and easily switch from non-tactical to tactical communications with the EPIC 3 Radio Interface (RI) Voice Communication System. We developed the EPIC 3 RI system to address the changing communication needs of firefighters and emergency personnel. The lack of clear fire scene voice communications is a leading concern for fireground situational awareness and safety. Working closely with first responders around the world, Scott Safety developed the EPIC 3 RI Voice Communication System — voice amplifiers, lapel speaker microphones, specialized accessories, and programming utilities — to meet the demanding needs and conditions while complimenting the performance and safety benefits of Scott Safety SCBA and personal protective equipment (PPE).

### THE EPIC 3 RI VOICE COMMUNICATION SYSTEM:

- Enhances SCBA facepiece voice communication intelligibility and loudness
- Advances safety through easy-to-use wireless communication interoperability with mobile field radios
- Provides easy transition from non-tactical to tactical communication modes
- Ensures operational compatibility with both legacy and new Scott SCBA and PPE
- Consolidates device functionality to reduce technology costs
- Improves user communications from the incident scene to remote locations



**Clear communication when and where you need it.**

Clear and pervasive communication improves first responder safety and enhances situational awareness. Hear and be heard in real-time whether at the incident or en route.

**Interoperable with hundreds of field radios to provide ultimate flexibility.**

Works with a wide range of field radio makes and models, allowing you to utilize existing radio equipment when used with Scott Safety SCBA, PPE, and communication solutions.

**Multi-purpose utility consolidates devices while reducing operational costs.**

Enhances SCBA facepiece voice communications, field radio interoperability, and remote speaker microphone operation. Supports facepiece use with supplied air, SCBA, APR, and PAPR breathing apparatus devices, increasing communications and facepiece utility while reducing equipment spend.

**Compatible with Scott SCBA and facepieces for increased long-term value.**

Add enhanced communications to new and legacy Scott Safety SCBA and PPE, providing additional safety benefits and value.

**Easy-to-use utilities make programming a breeze.**

All EPIC 3 Voice Amplifiers and Lapel Speaker Microphones can be easily software configured to meet specific customer use case and radio interoperability requirements if required. Device firmware and features can be upgraded while in the field, extending device utility while reducing device administration costs.

**Durable high-heat rated construction withstands the rigors of firefighting.**

All EPIC 3 Voice Amplifiers and Lapel Speaker Microphone housings and cables are purpose built to withstand the demands and high temperatures (up to 500° F) associated with interior firefighting, ensuring years of reliable operation and low maintenance costs.

**FUTURE-PROOF YOUR EQUIPMENT**

Upgrade capabilities and system compatibility with new and existing equipment make the EPIC 3 RI Voice Communication System virtually future-proof so you can maximize your investment.

The EPIC 3 RI System delivers multi-purpose communications utility and system compatibility with new and existing equipment.

Specialized communication accessories can also be used with the Lapel Speaker Mic, allowing you to further customize the EPIC 3 RI system to meet your specific requirements.

Supports connectivity and use with EPIC 3 communication accessories such as remote PTT Paddle, remote ring PTT switch, command headset, throat microphone and earpiece, and other future accessories.

# SPECIFICATIONS

## EPIC 3 RI VOICE AMPLIFIER

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 Lapel Speaker Microphone and field radio communications interoperability
POWER	
Power Source	3 - AAA Alkaline batteries, Intrinsically Safe; compatible with rechargeable NiMH batteries
Battery Life	Designed to deliver 40 hours runtime @ 25% voice amplification and Bluetooth connectivity duty cycle
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/m <sup>2</sup> 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, Ex II 1G
ESD	IEC/EN61000-4-2
Ingress Protection	IP66 and IP67
Drop & Tumble	6 ft drop all 6 sides - 30 minute tumble.

## LAPEL SPEAKER MICROPHONES - BLUETOOTH AND STANDARD

FIRE SAFETY STANDARDS	
NFPA	NFPA 1981 Approved (2002/2007/2013 Editions).
PHYSICAL	
Dimensions	Bluetooth LSM: 108mm x 70mm x 48mm Standard LSM: 108mm x 70mm x 38mm
Weight	Bluetooth LSM: 342 g with 3 AAA batteries Standard LSM: 232g
MICROPHONE	
Model Type	Omnidirectional
Sensitivity	-42dBV typical
Signal to Noise Ratio	60dB
SPEAKER ACOUSTICS	
DiameterW	40mm
Maximum Output Level	94db SPL (@ 1kHz, 30cm)
Frequency Response	300-4000Hz
COMMUNICATIONS	
Wireless Connectivity	Bluetooth 2.1 class 2
Field Radio Cable	High heat rated cable with field radio specific Universal Device Connector options
Accessory Connector	Industrial grade 6-pin connector interface with protective cover
POWER	
Power Source	Radio battery for Bluetooth LSM & LSM primary power functions Bluetooth LSM: 3 - AAA Alkaline Intrinsically Safe batteries for Bluetooth radio power; compatible with rechargeable NiMH batteries
Battery Life	Bluetooth LSM: Designed to deliver 50 hours runtime @ 25% Bluetooth communications duty cycle
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
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Humidity	MIL-STD 507.x PROC. II
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# ACCESSORIES

## **NEW VOICE COMMUNICATIONS SOLUTIONS FOR THE EPIC 3 RI INCLUDE:**



### **EPIC 3 Radio Interface (RI) Voice Amplifier**

Combines voice amplification and wireless interoperability with two-way field radios to enhance first responder tactical voice communications.



### **EPIC 3 Bluetooth® Lapel Speaker Microphone**

Supports wireless communications with EPIC 3 RI Voice Amplifier and remote speaker microphone operation with two-way field radios, providing seamless tactical and non-tactical communication capabilities. Also offers connectivity with EPIC 3 communication accessories.



### **EPIC 3 Programmer**

Bluetooth-enabled programming module and user-friendly software utilities for programming and upgrading EPIC 3 Voice Amplifier and Lapel Speaker Microphone.

### **EPIC 3 Accessories**

Specialized communication accessories that extend the EPIC 3 utility include command headset, throat microphone with earpiece and remote ring PTT control, remote PTT paddle device, and remote ring PTT control device.



# NOTES





**The Scott Story.** Since 1932, Scott Safety has been committed to providing outstanding, reliable safety equipment to those whose lives depend on it. Thousands of safety workers, firefighters, police, civil defense and military personnel have counted on Scott for innovative product design, best exemplified by our industry-leading Air-Pak SCBA. We've built a solid reputation on our attention to detail, rigorous quality assurance and exceptional service.

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