



# 3M™ Scott™ EPIC 3 Radio Interface (RI) Voice Communication System





# 3M™ Scott™ EPIC 3 Radio Interface (RI)

**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 3M™ Scott™ EPIC 3 Radio Interface (RI) Voice Communication System.

Working closely with first responders around the world, 3M Scott Fire & Safety developed the 3M™ Scott™ EPIC 3 Radio Interface (RI) Voice Communication System — 3M™ Scott™ voice amplifiers, lapel speaker microphones, specialised accessories, and programming utilities — to address the changing communication needs and conditions of firefighters and emergency personnel while complementing the performance and safety benefits of 3M™ Scott™ Safety Self-Contained Breathing Apparatus (SCBA) and personal protective equipment (PPE).



## The 3M™ Scott™ EPIC 3 RI Voice Communication System

- ▶ Enhances SCBA facepiece voice communication intelligibility and loudness
- ▶ 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 existing and new 3M™ Scott™ SCBA and PPE
- ▶ 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 while communicating in high noise environments or en route to the incident.

## Easy-to-use and reliable operation.

Simplified device operation and reliable Bluetooth® technology allows first responders to communicate effectively with team members and incident command while focusing on the tasks at hand.

## Interoperable with a wide variety of field radios to provide ultimate flexibility.

Works with a wide range of field radio makes and models, allowing you to utilise existing radio equipment when used with 3M™ 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 3M™ Scott™ SCBA and facepieces.

Add enhanced communications to new and existing 3M™ Scott™ Safety SCBA and PPE, providing additional safety benefits and value.

## Simple integration.

All 3M™ Scott™ EPIC 3 voice amplifiers and lapel speaker microphones can be easily software configured to meet specific customer use. Device firmware and features can be upgraded while in the field.

## Durable high-heat rated construction withstands the rigours of firefighting.

All 3M™ Scott™ EPIC 3 voice amplifiers and lapel speaker microphone housings and cables are purpose built to withstand the demands and high temperatures (up to 260° C) associated with interior firefighting, ensuring reliable operation and low maintenance costs.

### 3M™ Scott™ Voice Communication System

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

Specialised communication accessories can also be used with the lapel speaker microphone, allowing you to further customise the 3M™ Scott™ EPIC 3 RI system to meet your specific requirements.

Supports connectivity and use with 3M™ Scott™ EPIC 3 communication accessories such as remote push-to-talk paddle, remote ring push-to-talk switch, command headset, throat microphone and earpiece, and other accessories.





# 3M™ Scott™ EPIC 3 Radio Interface (RI) Voice Amplifier

## Specifications

### 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
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### 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

### Communication

Wireless communications	Bluetooth® 2.1 class 2 radio for wireless communications with 3M™ Scott™ EPIC 3 Radio Interface lapel speaker microphone and compatible two-way field radios
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### Power

Power source	3 AAA alkaline intrinsically safe batteries; compatible with rechargeable NiMH batteries
Battery life	Designed to deliver 40 hours runtime @ 25% voice amplification and Bluetooth® connectivity duty cycle. Auto shut down feature after 20 minutes of inactivity to conserve battery life

### Environmental

High heat and flame	260°C for 5 minute soak with a 10 second flame impingement followed by a 15cm (6") drop
Standard heat and flame	95°C for 15 minute soak with a 10 second flame impingement followed by a 15cm (6") drop
Radiant heat	15 kW/m2 for 5 minutes at 7 inches +/- 1 inch from heat source followed by a 15cm (6") 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/EN 61000-4-2
Ingress protection	IP66 and IP67
Drop and tumble	1.8 m (6 ft) drop all 6 sides – 30 minute tumble

# Lapel Speaker Microphones

## Bluetooth® and standard

### Specifications

#### Fire safety standards

NFPA	NFPA 1981 Approved (2002/2007/2013 Editions)
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#### 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

Diameter	40mm
Maximum output level	94dB SPL (@ 1kHz, 30cm)
Frequency response	300-4000Hz

#### Communication

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 and 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	260°C for 5 minute soak with a 10 second flame impingement followed by a 15cm (6") drop
Standard heat and flame	95°C for 15 minute soak with a 10 second flame impingement followed by a 15cm (6") drop
Radiant heat	15 kW/m2 for 5 minutes at 7 inches +/- 1 inch from heat source followed by a 15cm (6") drop
Operating temp	-30°C to +80°C
Storage temp	-30°C to +60°C
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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/EN 61000-4-2
Ingress protection	IP66 and IP67
Drop and tumble	1.8 m (6 ft) drop all 6 sides – 30 minute tumble

# 3M™ Scott™ EPIC 3 Radio Interface

## Ordering information

Article number	Description
<b>3M™ Scott™ EPIC 3 Radio Interface Voice Amplifier</b>	
2031846	3M™ Scott™ EPIC 3 RI Voice Amp OB Configuration AV3000HT
2031847	3M™ Scott™ EPIC 3 RI Voice Amp Vision3
2031848	3M™ Scott™ EPIC 3 RI Voice Amp Promask
<b>3M™ Scott™ EPIC 3 Lapel Speaker Microphone</b>	
2031849	3M™ Scott™ EPIC 3 LSM Motorola HT1000, XTS series
2031850	3M™ Scott™ EPIC 3 LSM Motorola HT750/1250/1550 series
2031851	3M™ Scott™ EPIC 3 LSM Motorola Mototrbo XPR series, APX series
2031852	3M™ Scott™ EPIC 3 LSM Kenwood TK280/290/380/390 series
2031854	3M™ Scott™ EPIC 3 LSM Harris P5400/7300, Unity series, XG series
<b>3M™ Scott™ EPIC 3 Bluetooth Lapel Speaker Microphone</b>	
2031855	3M™ Scott™ EPIC 3 Bluetooth® LSM Motorola HT1000, XTS series
2031856	3M™ Scott™ EPIC 3 Bluetooth® LSM Motorola HT750/1250/1550 series
2031857	3M™ Scott™ EPIC 3 Bluetooth® LSM Motorola Mototrbo XPR series, APX series
2031858	3M™ Scott™ EPIC 3 Bluetooth® LSM Kenwood TK280/290/380/390 series
2031859	3M™ Scott™ EPIC 3 Bluetooth® LSM Motorola Radius GP300 series
2031860	3M™ Scott™ EPIC 3 Bluetooth® LSM Harris P5400/7300, Unity series, XG series
<b>3M™ Scott™ EPIC 3 Voice Communication System accessories</b>	
2031861	3M™ Scott™ EPIC 3 Ring PTT
2031862	3M™ Scott™ EPIC 3 Paddle PTT
2031863	3M™ Scott™ EPIC 3 Throat microphone
2031864	3M™ Scott™ EPIC 3 Command Communication Headset
2031865	3M™ Scott™ EPIC 3 Bluetooth® Programmer Interface with USB cable
<b>3M™ Scott™ Vision 3 Facemask</b>	
2032228	3M™ Scott™ Vision 3 LQF ECB, small size rubber head harness (compatible with EPIC)
2030720	3M™ Scott™ Vision 3 LQF ECB, medium size rubber head harness (compatible with EPIC)
2032227	3M™ Scott™ Vision 3 LQF ECB, medium/large size rubber head harness (compatible with EPIC)
2030743	3M™ Scott™ Vision 3 LQF ECB, small size polyester net head harness (compatible with EPIC)
2030742	3M™ Scott™ Vision 3 LQF ECB, medium size polyester net head harness (compatible with EPIC)
2030741	3M™ Scott™ Vision 3 LQF ECB, medium/large size polyester net head harness (compatible with EPIC)
2031862	3M™ Scott™ EPIC 3 Paddle PTT
2031863	3M™ Scott™ EPIC 3 Throat microphone

Article number	Description
<b>3M™ Scott™ Promask Facemask</b>	
2032232	3M™ Scott™ Promask Positive Pressure Facemasks LQF ECB, small size rubber head harness (compatible with EPIC)
2032231	3M™ Scott™ Promask Positive Pressure Facemasks LQF ECB, medium/large size rubber head harness (compatible with EPIC)
2030786	3M™ Scott™ Promask Positive Pressure Facemasks LQF ECB, small size polyester net head harness (compatible with EPIC)
2030785	3M™ Scott™ Promask Positive Pressure Facemasks LQF ECB, medium/large size polyester net head harness (compatible with EPIC)
<b>3M™ Scott™ AV3000HT Facemask</b>	
8005245	3M™ Scott™ AV3000HT Facemask SRECB AV3000HT RECB, small size, Kevlar® head harness with right EPIC communications bracket
8005246	3M™ Scott™ AV3000HT Facemask MRECB AV3000HT RECB, medium size, Kevlar® head harness with right EPIC communications bracket
8005247	3M™ Scott™ AV3000HT Facemask L RECB AV3000HT RECB, large size, Kevlar® head harness with right EPIC communications bracket
8005248	3M™ Scott™ AV3000HT Facemask S LECB AV3000HT LECB, small size, Kevlar® head harness with left EPIC communications bracket
8005249	3M™ Scott™ AV3000HT Facemask M LECB AV3000HT LECB, medium size, Kevlar® head harness with left EPIC communications bracket
8005250	3M™ Scott™ AV3000HT Facemask L LECB AV3000HT LECB, large size, Kevlar® head harness with left EPIC communications bracket

# Related products

## Voice communications solutions for the 3M™ Scott™ EPIC 3 Radio Interface include:



### 3M™ Scott™ 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.



### 3M™ Scott™ EPIC 3 Bluetooth® Lapel Speaker Microphone

Supports wireless communications with 3M™ Scott™ 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 3M™ Scott™ EPIC 3 communication accessories.



### 3M™ Scott™ EPIC 3 Programmer

Bluetooth-enabled programming module and user-friendly software utilities for programming and upgrading 3M™ Scott™ EPIC 3 voice amplifier and lapel speaker microphone.



### 3M™ Scott™ EPIC 3 Accessories

Specialised communication accessories that extend the 3M™ Scott™ EPIC 3 utility include command headset, throat microphone with earpiece and remote ring push-to-talk (PTT) control, remote PTT paddle device, and remote ring PTT control device.

## 3M Scott Fire & Safety

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