


FreeSpeak II 1.9 GHz IP Transceiver

FreeSpeak II Wireless Solutions



Linking
People
Together



FreeSpeak II 1.9 GHz IP Transceiver

Key Features and Benefits

- Functions with FreeSpeak Edge base, Arcadia Central Station, and E-IPA-HX cards
- Requires E-IPA-HX card and an Eclipse HX frame (not available for FSII-BASE-II)
- For use with FreeSpeak II 1.9 GHz only
- Operates over IP on an AES67 compatible network
- Supports 10 FSII-BP19 or FSIC-BP19 belt-packs per FSII-TCVR-IP-19 transceiver
- Up to 64 transceivers supported on Eclipse HX matrix system
- Ethercon RJ45 network connections (2)
- High speed fiber SFP cages (1)
- Power-over-Ethernet (PoE) up to 300 ft (91 m)
- Green LED status indicator on top and bottom
- Mic stand or wall mount orientation (metric and imperial threads)
- IP53 rating for wet and dusty conditions

FreeSpeak II is a high performance wireless solution operating in the 1.9 GHz frequency band designed for extensive communication in large-scale operations.

Description

The FSII-TVCR-IP-19 is an active transceiver antenna for the FSII-BP19 and FSIC-BP19 belt-packs. The transceiver connects to the Eclipse® HX matrix system via the E-IPA-HX interface card. Each transceiver can support up to 10 FSII-BP19 or FSIC-BP19 belt-packs. When supported with the E-IPA card, up to 50 1.9 GHz belt-packs (in North America or 64 belt-packs in EU countries) and up to 64 transceivers can be supported on one Eclipse HX matrix system.

Operation

The FSII-TCVR-IP-19 allows transceivers and belt-packs to be placed anywhere there is an AES67 IP network connection. The FSII-TCVR-IP-19 connects to the E-IPA-HX card via copper or fiber over an AES67 compliant network switch. Transceivers can be connected by copper (2 RJ45's) or fiber (1 high speed SFP cages).

Power

The FSII-TCVR-IP-19 can be powered from an Power-over-Ethernet switch or using the supplied external power supply. If connecting via fiber, it will need to be locally powered.

Design

The FSII-TCVR-IP-19 is IP53 rated for water and dust resistance. The transceiver has a mount for wall or microphone stand. A green status light is visible from either mounting orientations.

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Capacity Chart

	Max Beltpacks	Max TCVRs	Max BPs per TCVR
FreeSpeak Edge Base	16	6 (IP)	10 (IP)
Arcadia Central Station	64	32 (IP)	10 (IP)
Eclipse HX (via E-IPA Cards)	192 Delta 200 Median/Omega	192 Delta (IP) 256 Median (IP) 320 Omega (IP)	10 (IP)

*Note: Each E-IPA Card supports up to 64 beltpacks with 64 IP Transceivers

Technical Specifications

Frequency Spectrum

USA, Canada, Mexico: 1920-1930 MHz (5 Channels)

Transceiver Range Output Power: 100mW

EU, Russia, Singapore, Hong Kong, Australia, New Zealand, South Africa:

1880-1900 MHz (10 Channels)

Transceiver Range Output Power: 250mW

Japan: 1894 - 1905 MHz (6 Channels)

Transceiver Range Output Power: 250mW

LA: 1910-1930 MHz (10 Channels)

Transceiver Range Output Power: 250mW

Brazil: 1910 MHz-1920 MHz (5 Channels)

Transceiver Range Output Power: 250mW

Modulation: GFSK, TDMA frame 10ms Full and Long slot

Power

Output: (EU/Russia) 10dBm average, (US): 18-20dBm

AC Input: 100VAC-240VAC, 60/50Hz, -1.4A max

Max Power Consumption at 120V: 20W

PoE: 15.4W at PoE port, 12.95W at device

USB Power Source: 5V, 3A; max power consumption = 12.5W

Environmental

Operating: 32°-125°F (0°-50°C)

Storage: 32°-150°F (0°-70°C)

Humidity: Between 20% and 90%, Non-Condensing

Mounting

Rear Mic Stand Mounts: Mic stand threaded sockets 5/8" & 3/8"

Safety Harness Attachment

Ball Joint Mic Adapter

Dimensions

8.5 x 7.5 x 2.5in (HxWxD)

(217 x 192 x 64mm)

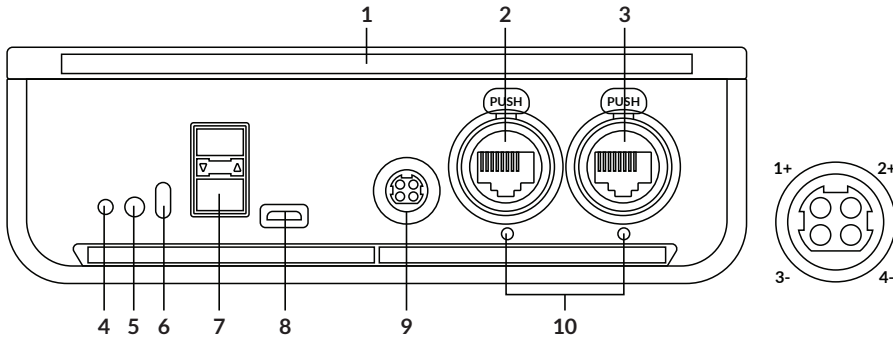
Weight

36.3oz (1028g)

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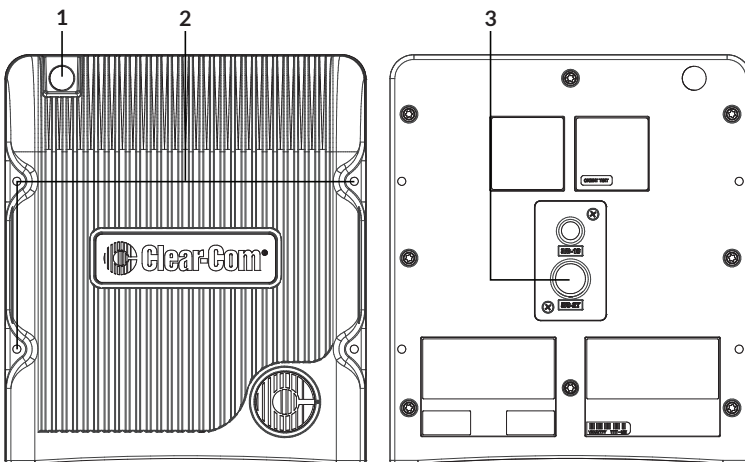
FSII-TCVR-IP-19 Bottom



Legend Bottom

1. Outlet filter
2. LAN 2
3. LAN 1/PoE
4. Power LED
5. Mode
6. Status LED
7. LAN 3
8. USB-C
9. Power 12V 1.2A
10. Inlet filter

FSII-TCVR-IP-19 Front/Back



Transceiver
must be mounted
vertically



Legend Front/Back

1. Safety Attachment
2. Center-to-center dimensions:
Vertical: 7.54in (191.54mm)
Horizontal: 7.05in (179.07mm)
3. Mic stand threaded socket:
5/8" & 3/8"

Order Codes

FSII-TCVR-IP-19-US: For use in USA and Canada (1920-1930 MHz)

FSII-TCVR-IP-19-EU: For use in the EU (1880-1900 MHz)

FSII-TCVR-IP-19-B: For use in Brazil (1910-1920 MHz)

FSII-TCVR-IP-19-LA: For use in Argentina (1910-1930 MHz)

FSII-TCVR-IP-19-J: For use in Japan (1894-1905 MHz)

Includes:

- (1) External PSU (PSU-EXT-002)
- (1) Adjustable Angle Mounting Kit (584G004)

Optional Parts:

- SFP-MMFO-1G-SX:** Multi-mode LAN SFP
- SFP-SMFO-1G-LX:** Single-mode LAN SFP
- SFP-RJ45-1G:** RJ45 LAN SFP

