

# FreeSpeak Edge™ Transceiver

## Quick Start Guide



FreeSpeak Edge™ is a member of Clear-Com's FreeSpeak™ family of digital wireless intercom solutions. A FreeSpeak Edge IP transceiver forms a link between FS Edge 5GHz beltpacks and a Clear-Com matrix (E-IPA-HX interface card). The transceiver is designed for use on AES67 enabled Local Area networks (LAN). It requires careful setup of an AES67 compatible network switch with PTP. For details see: *Clear-Com AoIP network and switch recommendations*.

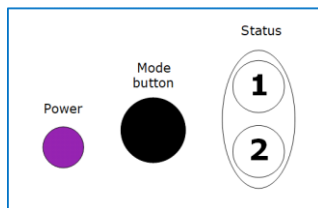
### Powering options: FS Edge transceiver

- Power over Ethernet (PoE). Connect to LAN1 (RJ45)\*
- Local power. Use the power supply unit provided with the transceiver
- USB battery pack (transceiver standalone mode only). Requires USB C connection with 3A, 5V output.

\*The transceiver is a Class 3 PoE device. If you exceed the power budget of your switch the units will malfunction.

### Reset transceiver to default

1. Press and hold the mode button for 12 seconds. When the status LEDs turn red, release the mode button.



This will reset the transceiver to DHCP mode and remove any stored diagnostics.

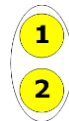
The Admin and audio (AES67) IP addresses are reset to DHCP, RF output power will reset to 18 dBm and radio channels will default to 132 and 140.

**Reset can take up to 5 minutes.**

### Transceiver standalone mode

Use standalone mode to connect two beltpacks (full duplex audio) for performing an initial site survey or demo. To enable standalone mode:

1. Press and hold the mode button while simultaneously powering the Edge transceiver. When the status LEDs turn yellow, release the mode button. The transceiver will then work through its startup sequence. When the device is ready, LED 1 is steady and LED 2 flashes yellow.



Transceiver has entered standalone. Release the mode button.

**The transceiver can take up to 5 minutes to boot in standalone mode.**



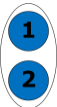



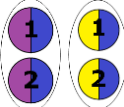
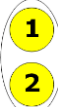
LED 2 flashes yellow. The transceiver is ready for beltpack connection.

## Registering FS Edge beltpacks in standalone mode

Once standalone mode is enabled on the transceiver you can register and connect two FS Edge beltpacks:

- 1) Power on the beltpack.
- 2) Enter menu mode by pressing + and – keys at the same time for one second.
- 3) Navigate to **System** using the rotary controllers.
- 4) Select **System** using the D key.
- 5) You will see the transceiver to register to in the menu screen.
- 6) Select the transceiver and register to it using the **D** key. Use the **C** key to go back or cancel.
- 7) To take a transceiver out of standalone mode, power cycle the device.

## Transceiver status LEDs

Booting: up to 3 mins. 	Acquiring PTP lock: flashing up to 2 mins. Solid purple when PTP locked. 	Acquiring RF sync: flashing yellow up to 2 mins. 
No connection to system (flashing white) 	Channel availability check: 1 min per channel. 	Device ready for beltpack connection: solid yellow 

## Orientation and height of transceiver

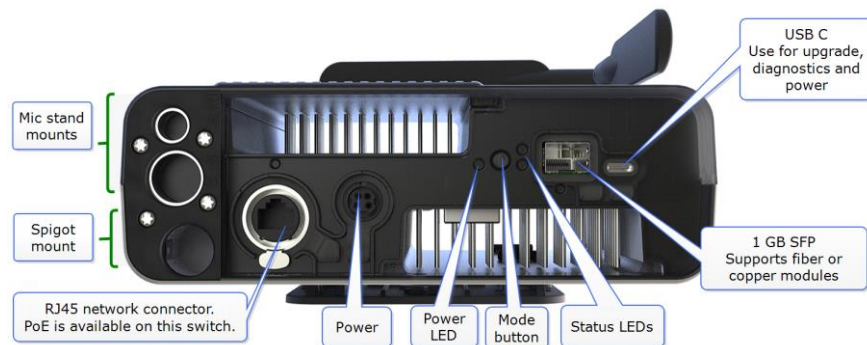
The IPT will transmit audio at any orientation. However, in order to achieve optimum environmental performance (temperature and water resistance) it must be fixed in an upright vertical position.

For best performance the device should be positioned 8 – 20 feet (2.4 – 6m) above the floor and 2 feet (0.6m) below the ceiling.

Antenna orientation: The transceiver has two external antennas. In order to maximize performance, one antenna should be set to a horizontal polarity position and the other to a vertical polarity position (see image at the top of page 1).



## Connectors



For additional information on system and set up scan QR code.  
[www.clearcom.com/freespeak-edge-knowledge-center](http://www.clearcom.com/freespeak-edge-knowledge-center)

