

FreeSpeak Edge Base Station

Version 2.10+

Quick Start Guide



Important! Before use please verify:

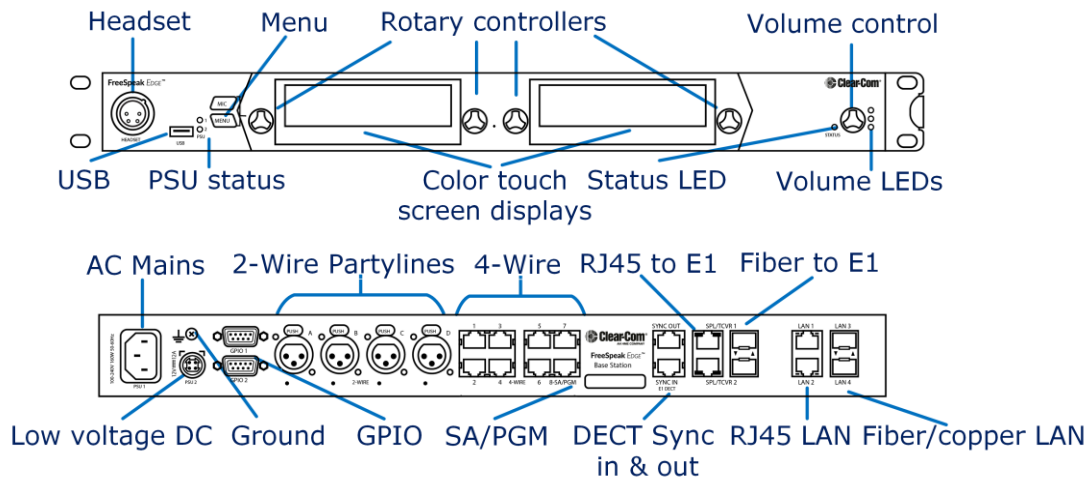
- System firmware is up to date
- AES67 Network requirements for IP connected FreeSpeak TCVR



The FreeSpeak Edge® Base Station supports all FreeSpeak™ products, including FreeSpeak Edge & FreeSpeak II®.

- FreeSpeak Wireless Intercom: up to 16 beltpacks via up to 6 IP and/or 10 E1 transceivers on 2 splitters
- FreeSpeakII 1.9 GHz on E1 and IP Transceivers, 2.4GHz on E1 Transceivers, 5.0GHz on IP Transceivers
- Dante Audio Network Interface ports: up to 8 ports
- Analog Interfaces: 2-Wire Powered Partyline, 4-Wire Audio Line-Level and GPIO Controls

Connectors, controls, and indicators



FreeSpeak Edge Base Station Host Name and Network Settings

FSE-BASE Host Name is visible when pairing FreeSpeak beltpacks. Host name can be found & edited from the Front Panel Menu: **Host Settings>Host Name & CCM Hardware>Host>Network**.

FSE-BASE allows flexible assignments of functions to its (4) LAN ports configured in CCM **Hardware>Host>Network**. Default LAN; LAN1 for Management - LAN2 AES67 to FreeSpeak IP Transceivers.

Network Recommendations:

- | Do | Do not |
|--|---|
| <ul style="list-style-type: none">• Use network DHCP for FreeSpeak IP TCVR• Use <u>only</u> AES67 capable network for FreeSpeak IP TCVR | <ul style="list-style-type: none">• Use automatic Link Local IP addresses (169.254...)• Connect 2 FSE-BASE LAN to same Subnet/VLAN |

Accessing the FSE-Base CCM for System Setup, Configuration and Status Monitoring

FSE-BASE CCM, Core Configuration Manager, allows easy setup, configuration, and status monitoring of your system

1. Connect FSE-BASE Management port (Default: LAN 1) to a network along with your computer.
2. Front Panel: Use rotary controllers to navigate to: **Networking>Management>IP Address**.
3. Web browser: Enter the IP address from step 2.
4. Front Panel Menu: Use rotary controllers to navigate to: **Administration>CCM Access>Default Password**.
5. Web browser: Log In using the username ("admin") and factory default password (case sensitive) from step 4.

7 June 2023
PN: PUB-00017 Rev D



Connecting FreeSpeak Transceivers

Option 1 – E1 Transceivers directly connected via CAT Cabling

Connect an E1 transceiver to each FSE-BASE E1 RJ45 connector.

Option 2– E1 Transceivers via Splitters and CAT Cabling

Connect an FSII-SPL splitter to each of FSE-BASE E1 RJ45 connector using and power the splitter. Connect E1 Transceivers using CAT cabling to the splitters.

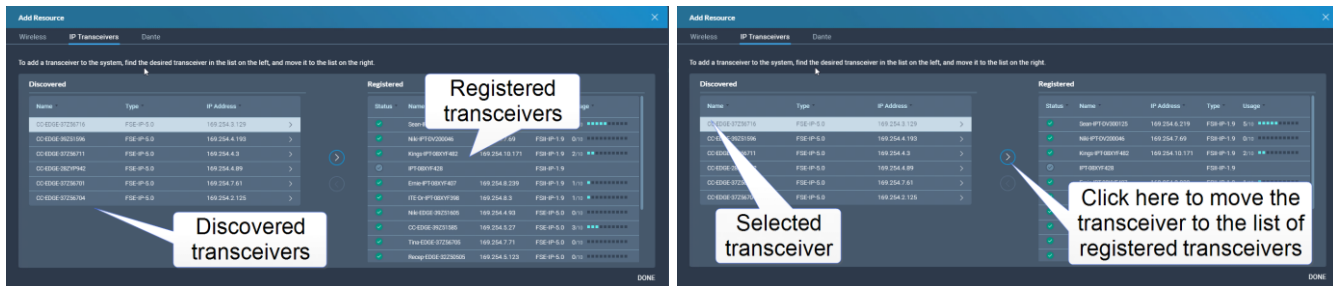
Option 3– E1 Transceivers via Splitters and Fiber Cabling

From the CCM, navigate to **Hardware>Host>Wireless** tab and select FreeSpeakII Transceiver Ports: **Fiber**.

Connect an FSII-SPL splitter to each of FSE-BASE E1 SFP connector using HLI-MMFO (multi-mode) or HLI-SMFO (single-mode) SFP transceivers and power the splitter. Connect E1 Transceivers using CAT cabling to the splitters.

Option 4 – IP Transceivers via AES67 Capable Network

Connect an AES67 capable network to FSE-BASE AES67 network (default: LAN 2) and all FreeSpeak IP transceivers. Provide DHCP and power. From the CCM, navigate to **Hardware>Resources** and select **Add Resource**. Select **IP Transceivers** tab. **Select** the transceivers found on the network and **Add**.



Note: 1.9GHz IP and E1 Transceivers must not be used concurrently in the same RF coverage zone.

Clear-Com recommends shielded 24 AWG CAT 5E cables, or better, to connect transceivers.

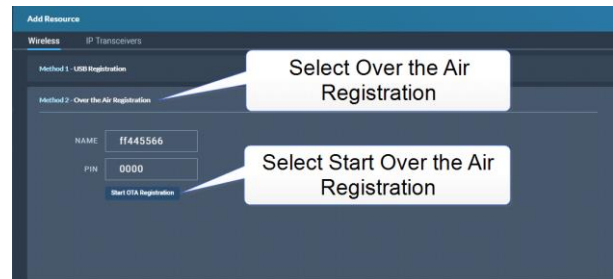
Registering FreeSpeak Beltpacks

Option 1 – USB Registration at the FSE-BASE Front Panel

Connect the beltpack to the USB connector on the front panel of FSE-BASE. FSE-BASE will register, create, and apply a Role to the beltpack.

Option 2 – Over-The-Air (OTA) Registration using the FSE-BASE CCM

1. Navigate to CCM's **Hardware>Resources** and click **Add Resource**.
2. Click **Start OTA Registration**.
3. In the System Connect Menu on the FreeSpeak Beltpack, find the FSE-BASE Host Name/System ID and connect using the OTA PIN (FreeSpeakII only). Once connected, a Role must be created and selected for the beltpack.



Connecting 2-Wire and 4-Wire devices

1. Connect the 2-Wire & 4-Wire RJ45 connectors as needed in the CCM: **Configuration>Channels/Groups/Roles**
2. For 2-Wire ports, in the CCM, perform Nulling calibration from the CCM: **Hardware >Physical Ports>Select Port>Start Nulling**, or from the front panel: **Menu>2W Audio>2W (A, B, C or D)>Nulling>Start**.

Connecting to Dante devices

1. Connect the FSE-BASE LAN connectors that are configured for Dante to connect to the Dante network.
2. Use CCM to assign Dante ports to channels or keys. **Configuration>Channels/Groups/Roles**
3. Use Dante Controller to route audio around the Dante network.

For more information, see the [Dante Controller User Guide](#).

The FSE-BASE device name in the Dante Controller is prefixed by **CCEdge**.

For more information, see the [FreeSpeak Edge Knowledge Center](#) (QR code on Page 1)