



# Clear-Com FSE-BASE FreeSpeak Edge Base Station User Guide

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Quick Start Guide  
FreeSpeak Edge Base Station  
Version 2.10+

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## FSE-BASE FreeSpeak Edge Base Station



**Important! Before use please verify:**

- System firmware is up to date

- AES67 Network requirements for IP connected FreeSpeak TCVR

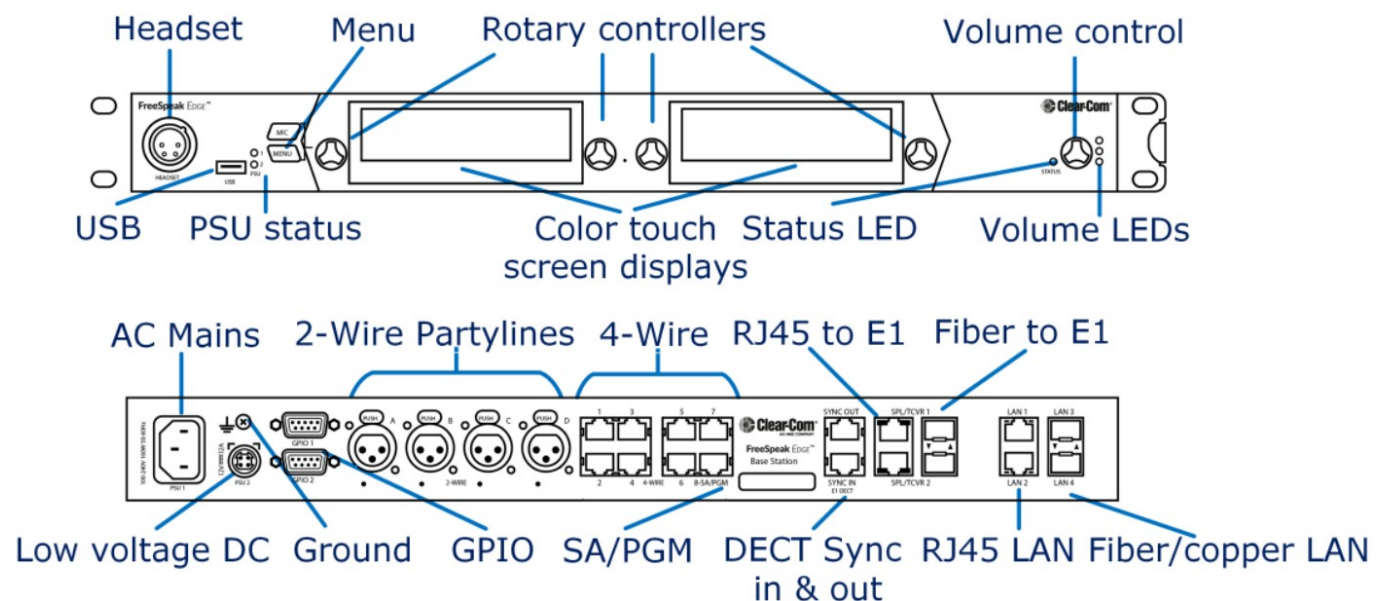


<https://www.clearcom.com/freespeak-edge-knowledge-center/>

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

- FreeSpeak Wireless Intercom: up to 16 beltacks 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 beltacks. 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

- Use network DHCP for FreeSpeak IP TCVR

- Use only AES67 capable network for FreeSpeak IP TCVR
- Do not
- 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.



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## 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

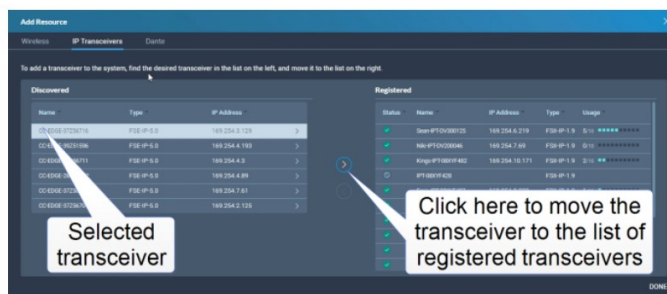
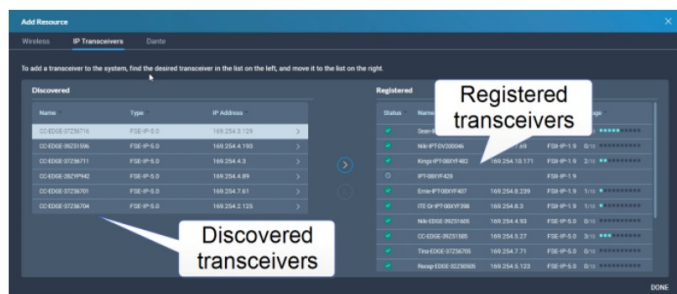
Connect an FSII-SPL splitter to each of FSE-BASE E1 RJ45 connector using and power the splitter. Connect E1 Transceivers using CAT cabling to the splitters.

### 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 FSEBASE 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)

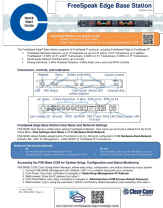


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7 June 2023

PN: PUB-00017 Rev D

## Documents / Resources

	<p><a href="#">Clear-Com FSE-BASE FreeSpeak Edge Base Station</a> [pdf] User Guide FSE-BASE, FSE-BASE FreeSpeak Edge Base Station, FSE-BASE, FreeSpeak Edge Base Station, Edge Base Station, Base Station, Station</p>
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## References

- [Technical Documentation](#) | [Audinate](#) | [Dante Pro AV Networking](#)
- [User Manual](#)