



ARCADIA[®]

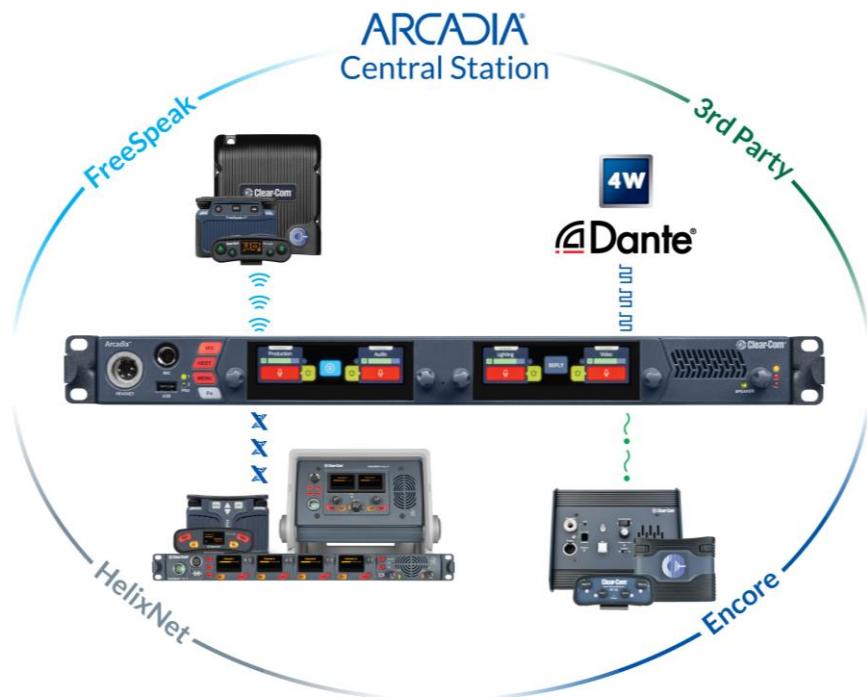
Central Station

Release 2 with HelixNet

February 2023

Overview





Arcadia

Central Station

Intercom:

- FreeSpeak Wireless Intercom
- HelixNet Wired Intercom
- 2-Wire with Power

Interfacing:

- Dante
- 4-Wire
- 2-Wire
- GPIO

Arcadia Central Station



Eclipse Delta



Arcadia Central Station



FreeSpeak Edge Base Station



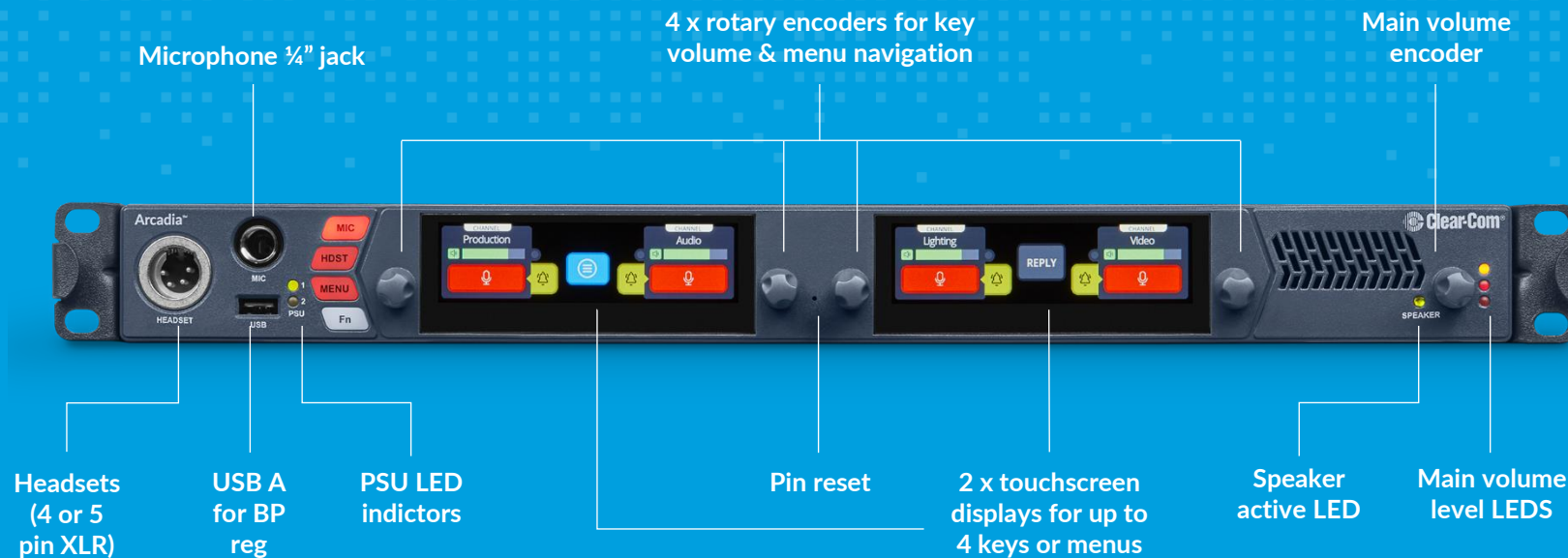
FreeSpeak II Base II

Arcadia

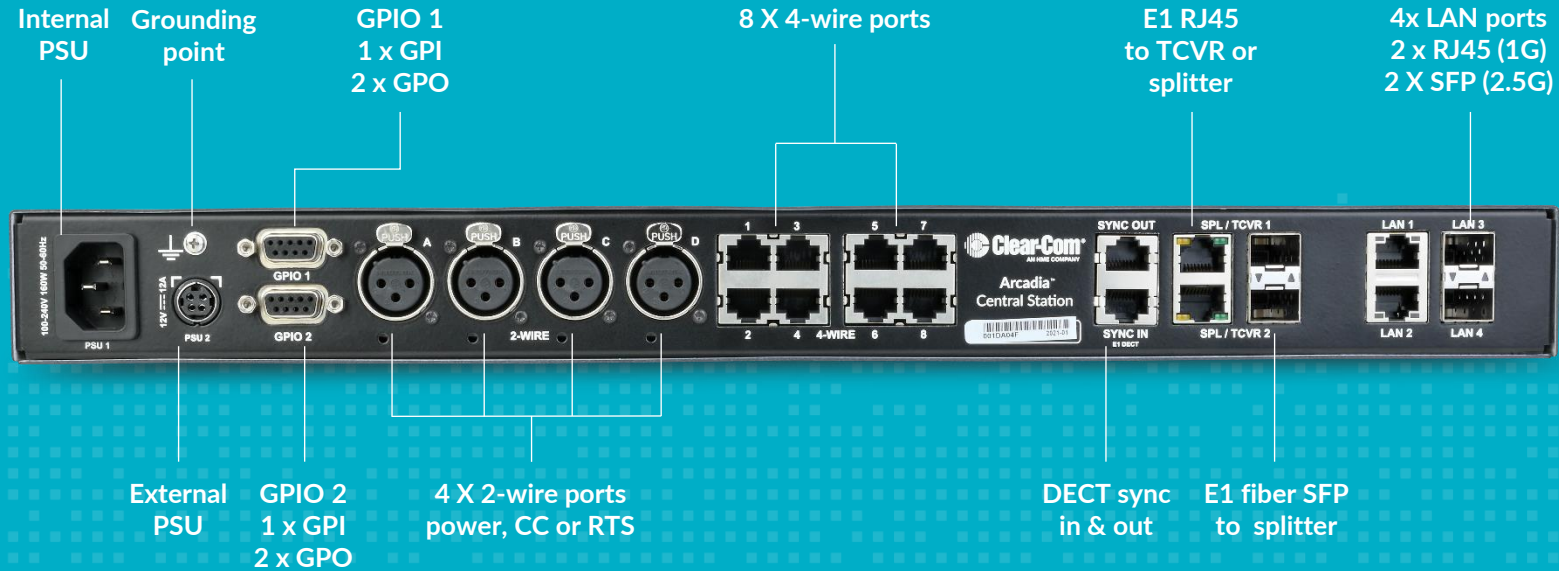
Central Station



Arcadia Central Station Front



Arcadia Central Station Rear

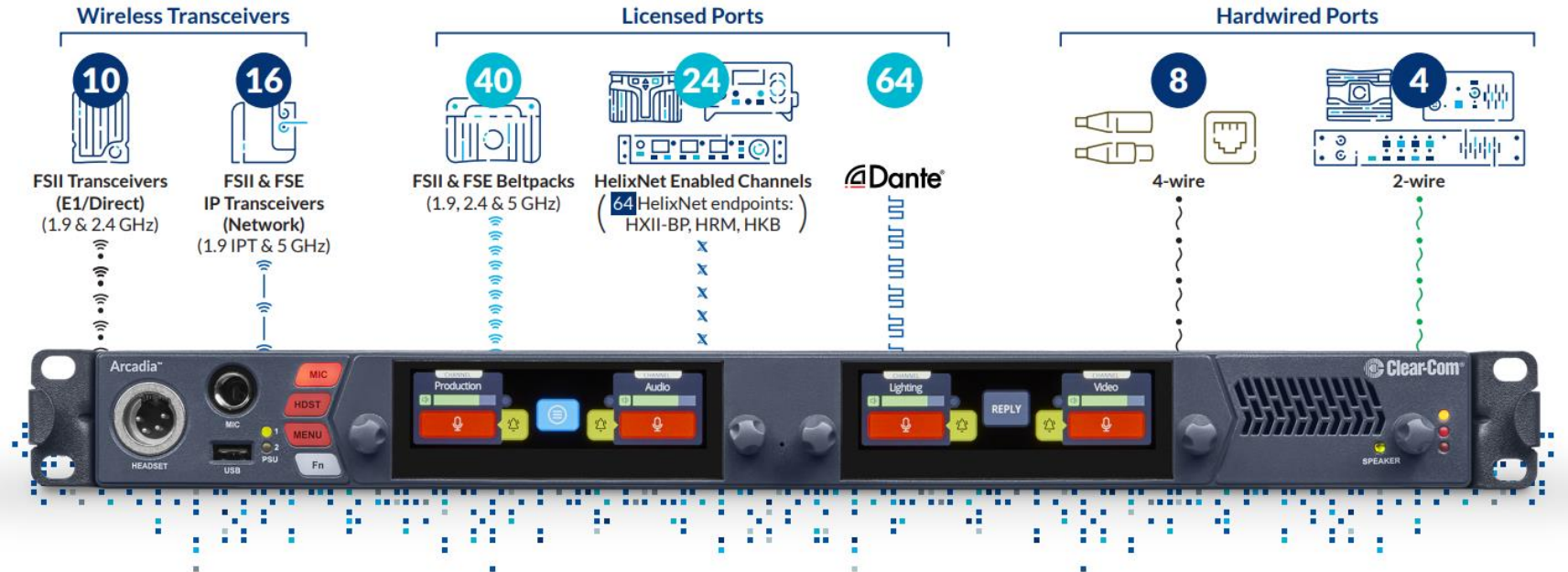




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Capacity

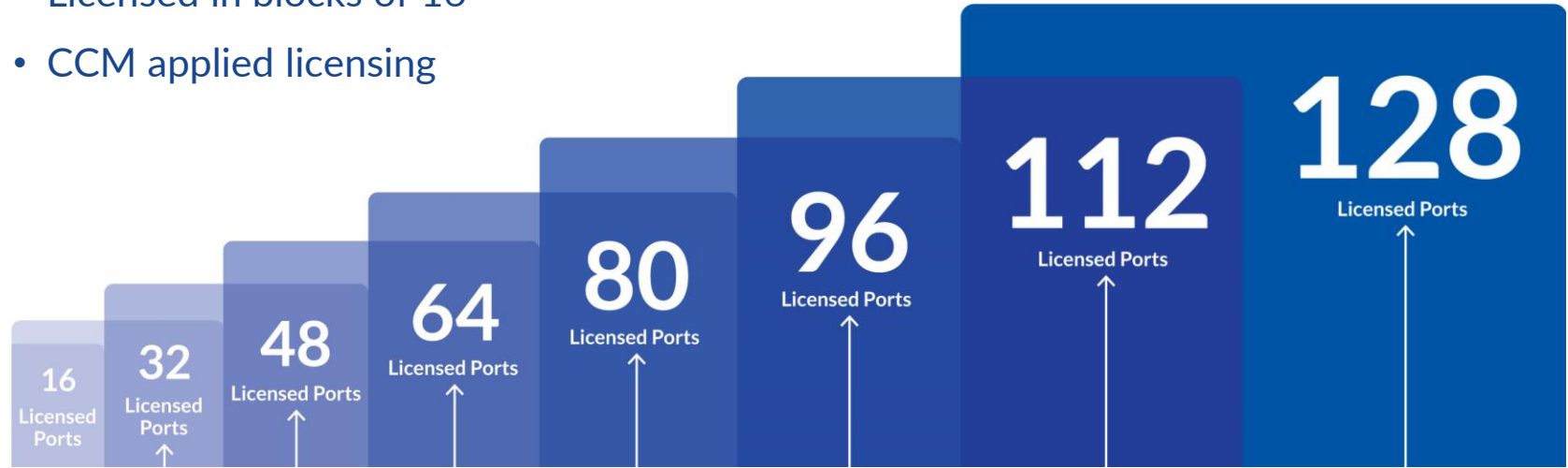
Arcadia – Capacity



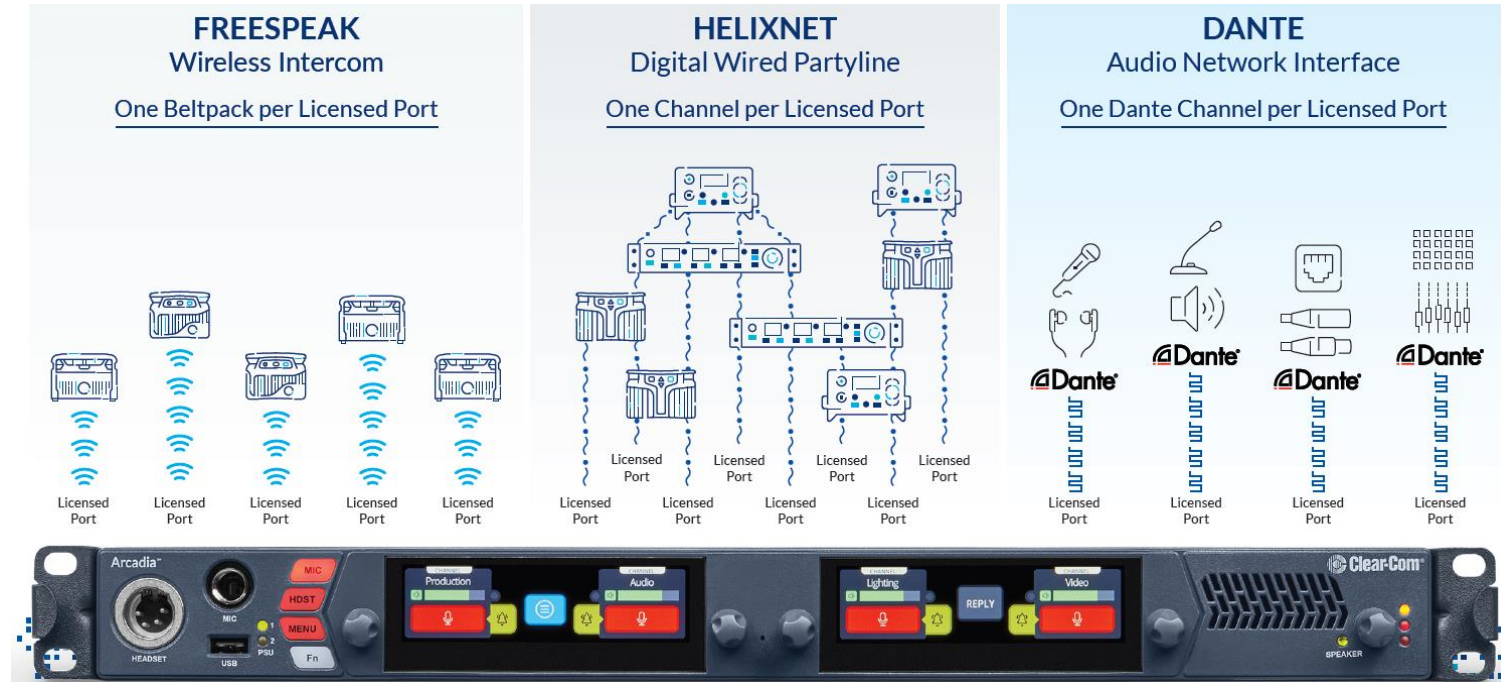
Please Note: Licensed Ports are NOT needed for: 2Wire, 4Wire, GPIO, FS TCVR or HelixNet User Stations

Arcadia - Licensing

- Expandable from 16 to 128 Licensed Ports
- Up to 40 FreeSpeak Beltpacks + 24 HelixNet Enabled Channels + 64 Dante ports
- Licensed in blocks of 16
- CCM applied licensing



Arcadia – Licensed Port Usage



Please Note: Licensed Ports are NOT needed for: 2Wire, 4Wire, GPIO, FS TCVR or HelixNet User Stations

Arcadia – Licensed Port Calculator

Arcadia License Port Calculator



 **16** Enter number of Wireless Beltpacks required – Maximum: 40

 **8** Enter number of Dante Ports required – Maximum: 64

 **8** Enter number of Intercom Channels HelixNet User Stations can access – Maximum: 24
NOTE: This is NOT your number of HelixNet User Stations – Maximum: 64

32 Minimum of Arcadia License Ports are required

ARCADIA SYSTEM - BILL OF MATERIALS

(1) ARCADIA-32P - With 32 Licensed Ports

Licensed Port Calculator

How many ports do I need?

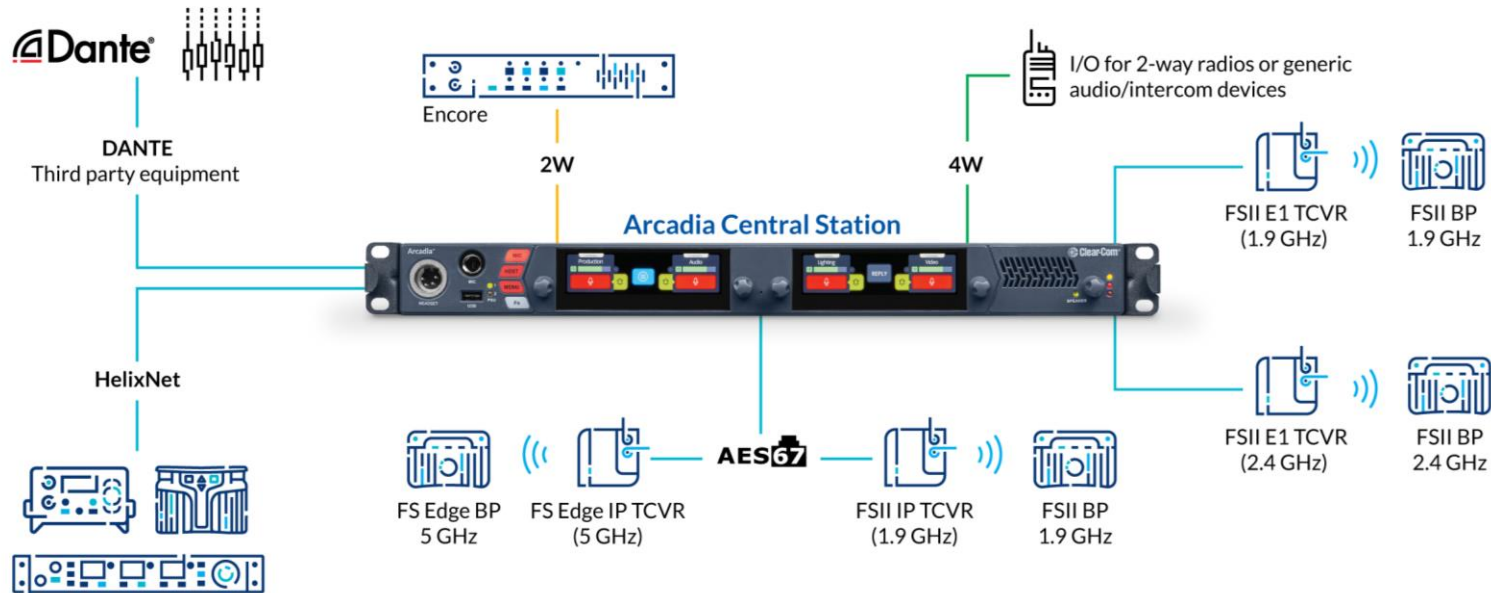
<https://www.clearcom.com/arcadia-calculator/>

The logo for ARCADIA, featuring the word in a blue, sans-serif, all-caps font. The background is a solid blue-grey color with a faint, repeating pattern of interlocking diamond shapes on the right side.

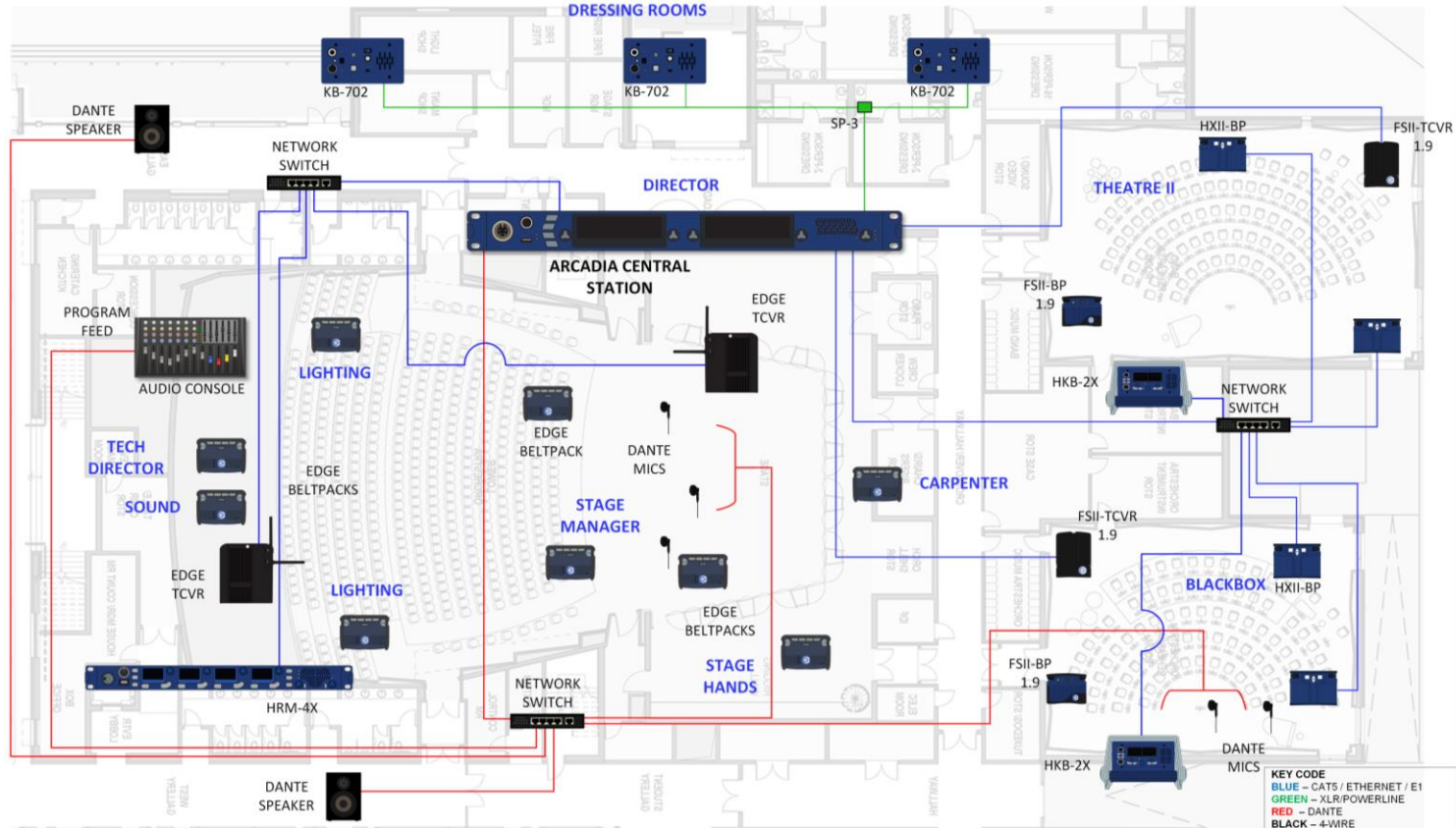
ARCADIA

Building a System

Arcadia Central Station

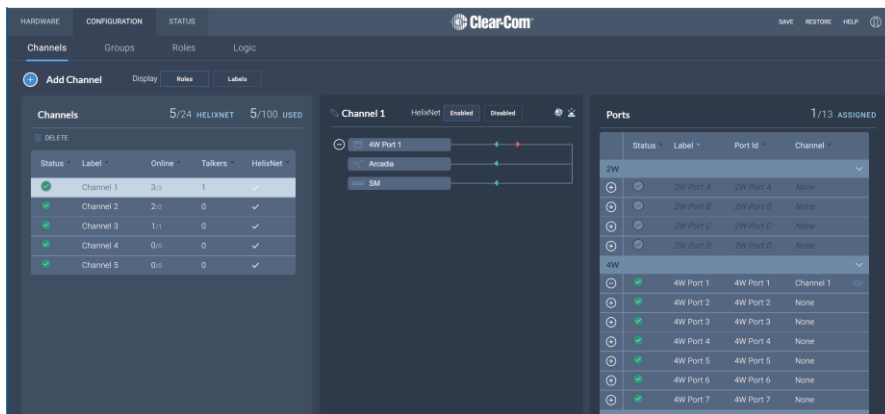
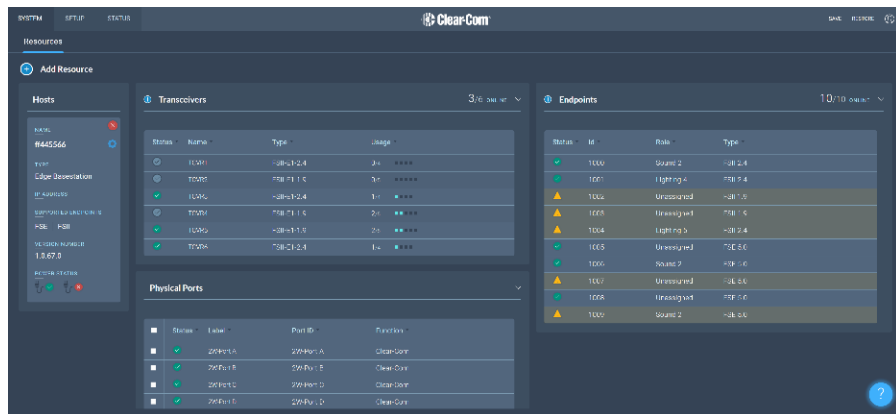
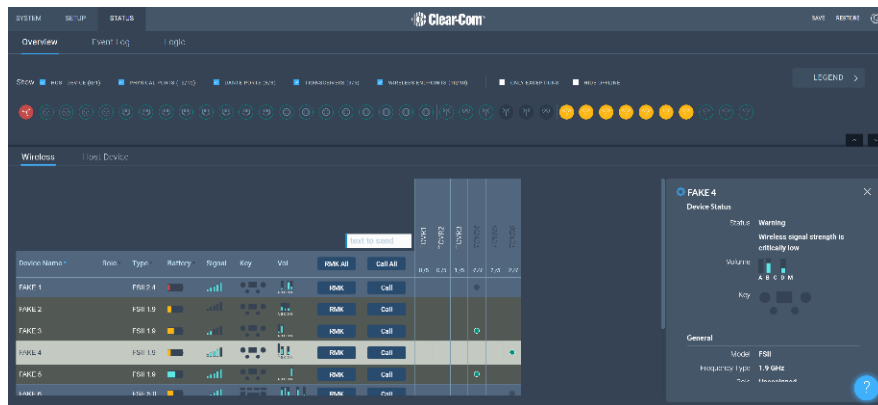


Application Diagram – Performing Arts Center

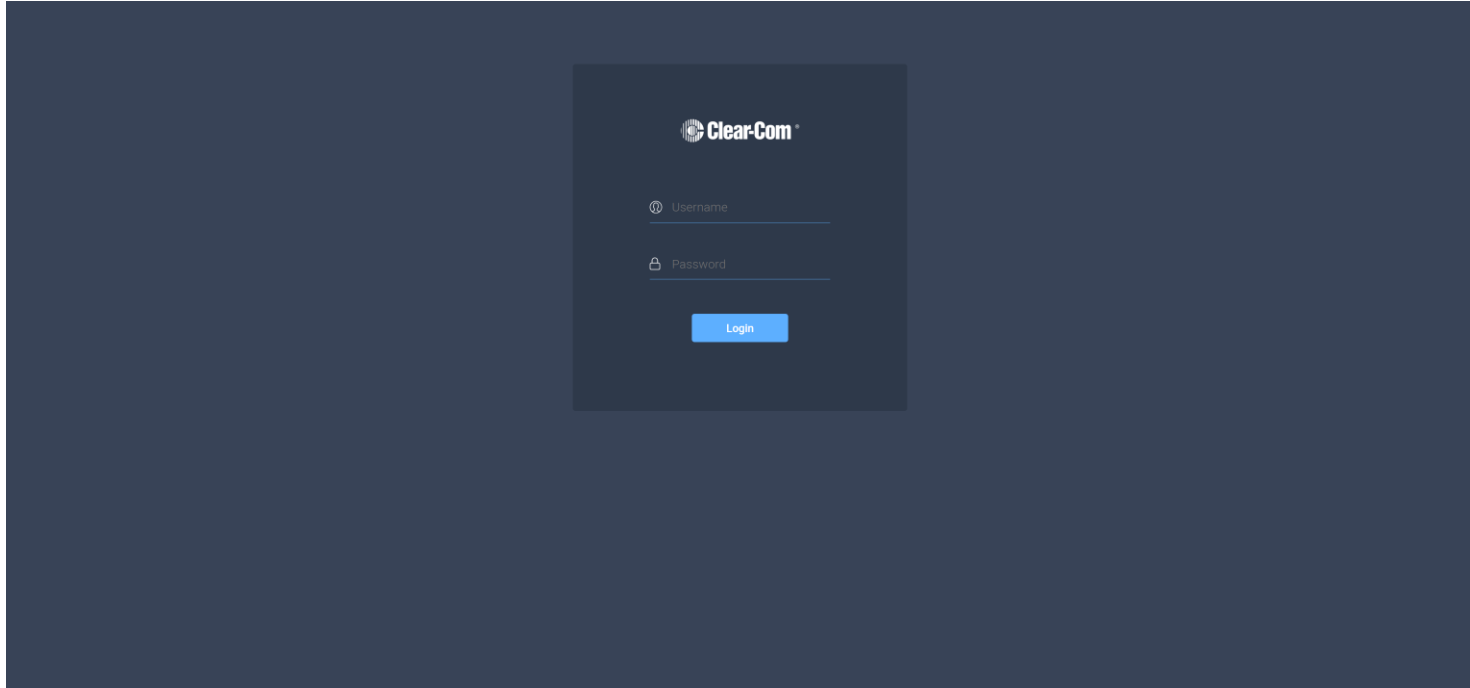


Re-imagined CCM

- Updated design with blue color focus
- Simple & intuitive to use



Arcadia – Hands on





ARCADIA

Technical Notes

FS IP vs E1 Transceivers

Arcadia can run FreeSpeak II 1.9GHz with:

E1 Transceivers

- 5 beltpacks concurrently per Transceiver using G722 codec
- 10 Transceivers per Arcadia via 2 FSII-Splitters
- Direct CAT connection to Arcadia or via FSII-Splitter – Cable length >100mtr/300ft
- Plug and Play – No configuration required - Same as on FSII-BASE-II



IP Transceivers

- 10 beltpacks concurrently per Transceiver using BV32 codec
- 16 Transceivers per Arcadia
- AES67 capable networks with strict PTP timing requirements
- Centrally discoverable

AES67
Capable Network



“IPT”

Note: FreeSpeakII beltpacks cannot seamlessly roam between E1 and IP Transceivers – [Airgap!](#)

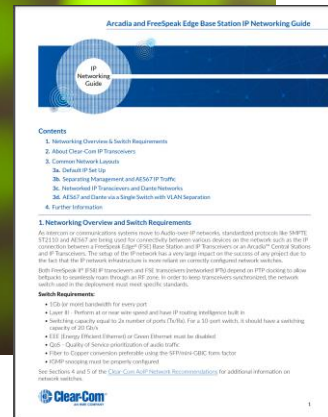
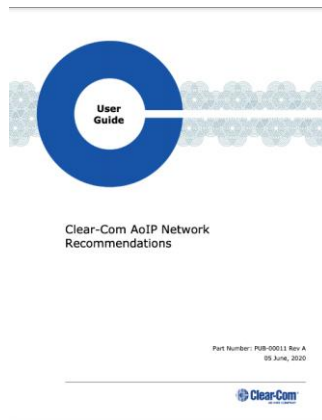
FS IP Transceiver networks are important!

Entry level IP switches / Routers do not provide the clocking accuracy for FreeSpeak IP transceivers

- 1Gb full network speed
- AES67 support
- PTP2 support
- QoS activated

For more detail see:

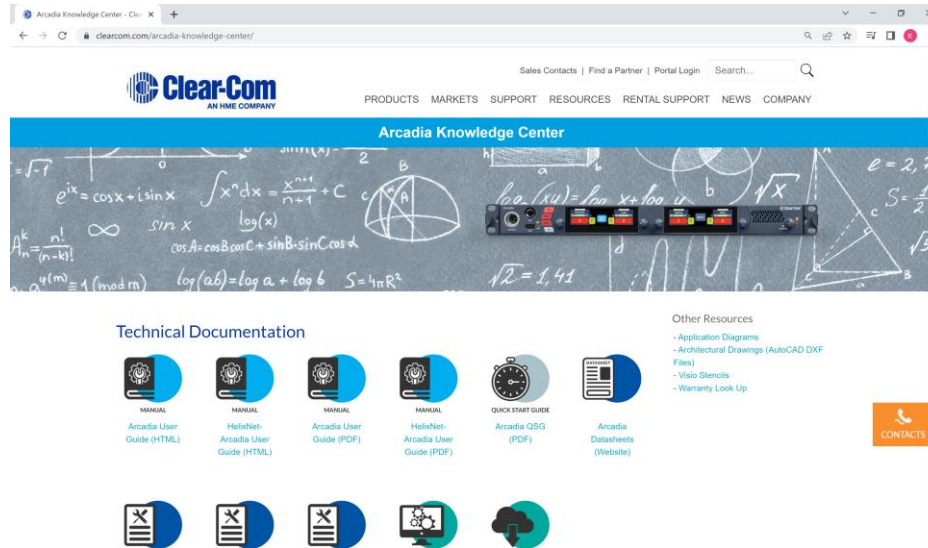
[Clear-Com AoIP Network Recommendations - Long](#)
[Arcadia AoIP Network Recommendations - Short](#)



ARCADIA

Reference Material

Arcadia– Knowledge Center



Arcadia Knowledge Center

All things Arcadia

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

Arcadia – Reference Material


Infographics – *for quick reference*




- [Overview](#)
High-level Arcadia capabilities and practicalities of licensing
- [Licensed Ports](#)
For use when explaining the Licensed Port concept to customers
- [Interfacing](#)
What they are and how the user can use them.
Examples and information about configurability
- [Licensed Ports & Interfacing](#)
All the Arcadia connections in one place

Calculators - *to specify and validate systems*

- [Arcadia Licensed Port Calculator](#)
To validate Licensed Port Requirements
- [Encore\(/2-Wire\) Power Supply Calculator](#)
Updated to include Arcadia

Arcadia License Port Calculator



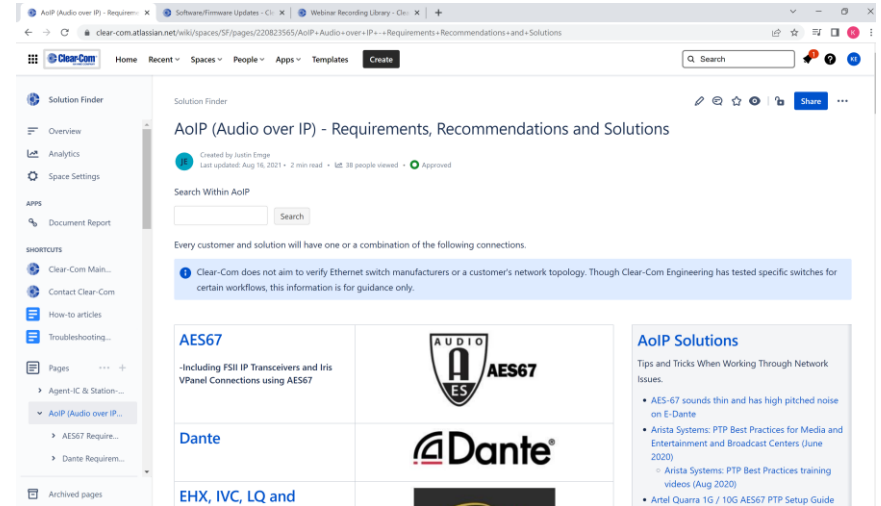
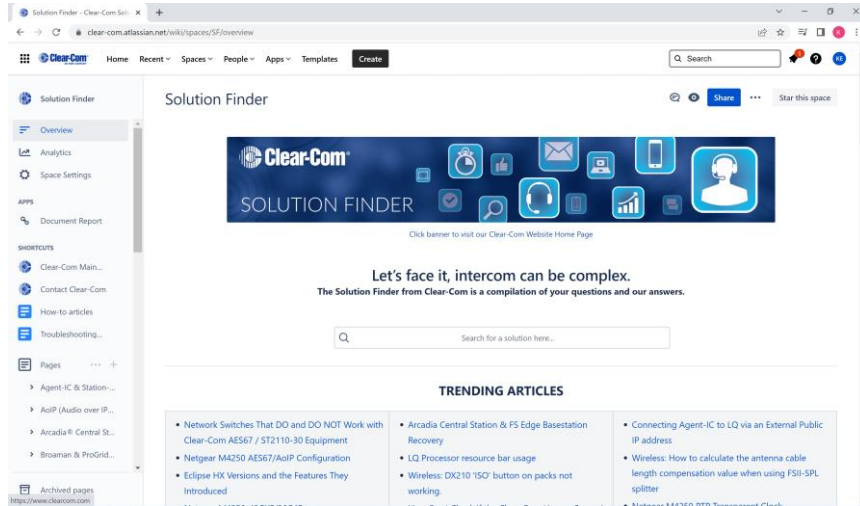
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(1) ARCADIA-32P - With 32 Licensed Ports

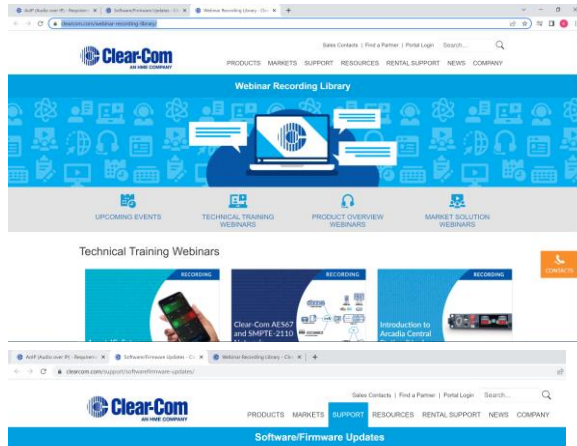
Licensed Port Calculator

Clear-Com Solution Finder



Live knowledge base maintained by our frontline technicians
<https://clear-com.atlassian.net/wiki/spaces/SF/overview>

Clear-Com Resources



Webinars

Library of webinar recordings

<https://www.clearcom.com/webinar-recording-library/>

Software/Firmware Updates

A screenshot of the 'Software/Firmware Updates' registration form on the Clear-Com website. The form has a blue header with the Clear-Com logo and the text 'Latest Product Firmware & Software Updates'. Below the header, there's a sign-up prompt: 'Sign up to receive email notices when new product firmware or software versions are released.' The form contains several input fields: 'First Name', 'Last Name', 'Email', 'Phone', 'Company', and 'Country'. There's also a 'Customer Type' section with radio buttons for 'End User', 'Partner', 'System Integrator', and 'Consultant'. At the bottom, there's a checkbox for 'Please keep me up-to-date on these products (check all that apply)' and a dropdown menu for 'Agreed: Arcadia Central Station'.

Register for Firmware Update Announcements

<https://www.clearcom.com/support/softwarefirmware-updates/>



Thank You



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