ClearOne®

Medium Classroom

Design Guide

DOC-0552-001   REV 1.2 - May 11, 2022

Room Application
Audio/Video Conferencing, Presentation.

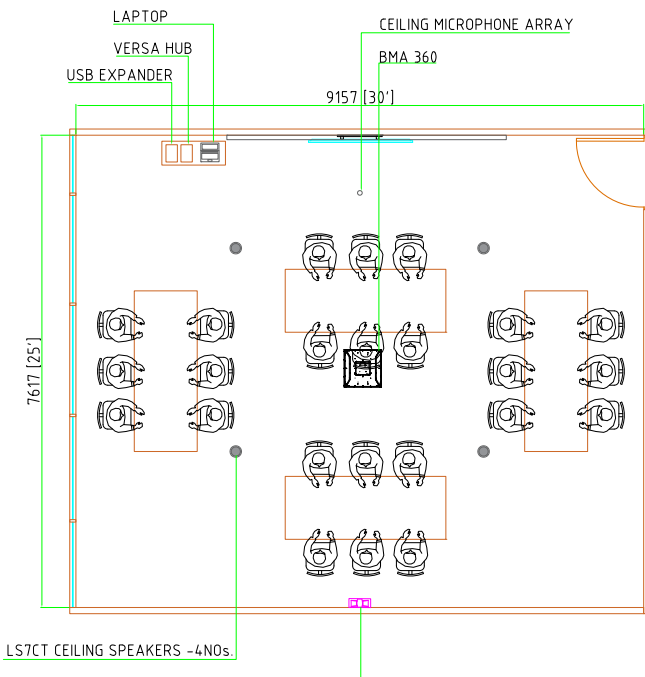## Included Interfaces
BYOD, VoIP, Telco.

Primary Equipment
- BMA 360
- Ceiling Microphone Array
- Versa USB Hub
- 48VT Audio DSP
- Unite 150 PTZ Camera

Software/Firmware revisions utilized
- Console AI Version: 7.5.4.1
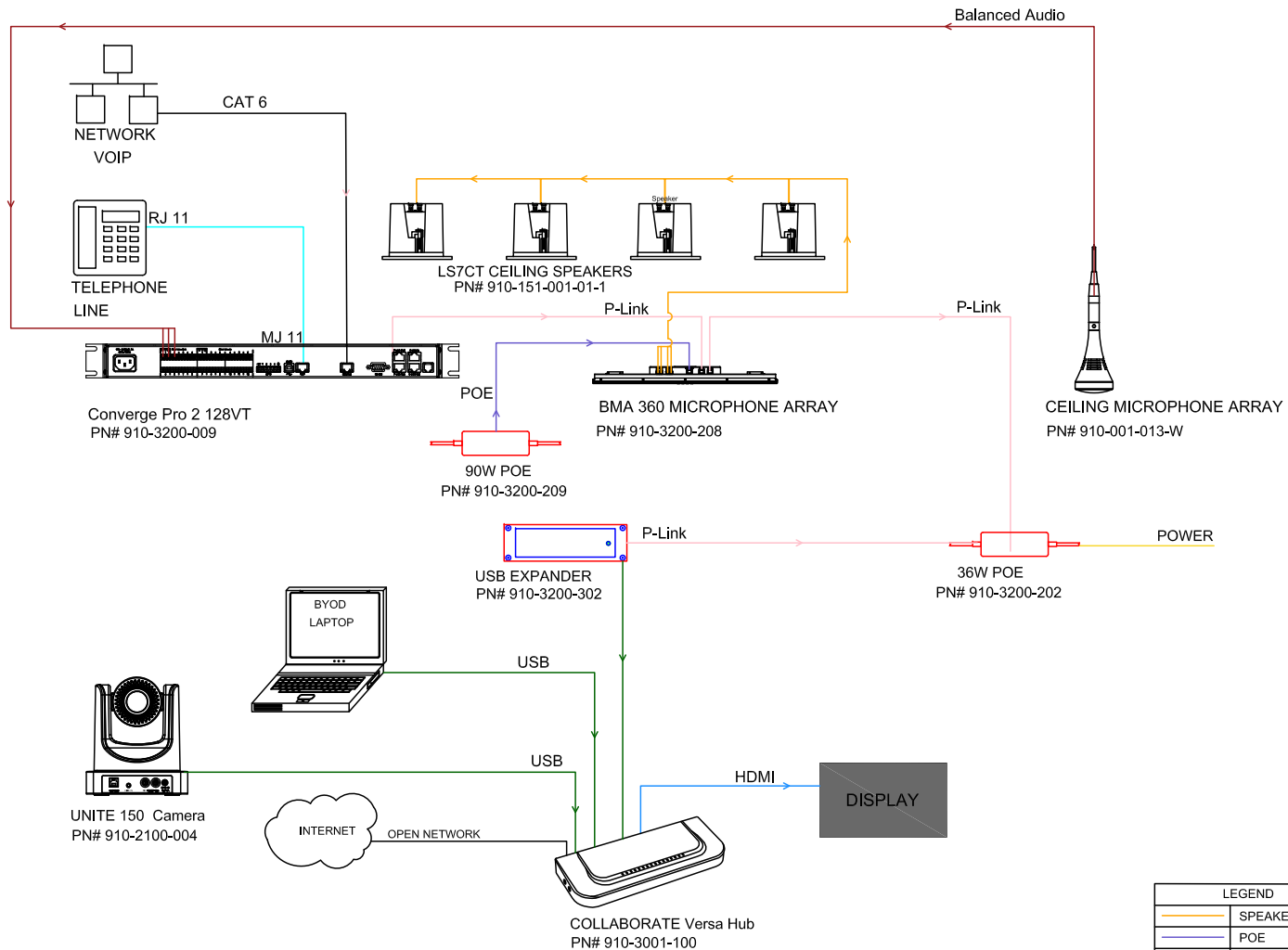- DSP Version: 8.5.15.0
- BMA360 Version: 1.0.6.10

Room Illustrations

LAPTOP
VERSA HUB
USB EXPANDER
CEILING MICROPHONE ARRAY
BMA 360
9157 [30']
7617 [25']
LS7CT CEILING SPEAKERS –4NOs.

Room Description
Stay connected with your students and communicate clearly. This medium classroom design provides an excellent platform for remote attendance as well as recording of Classroom sessions.
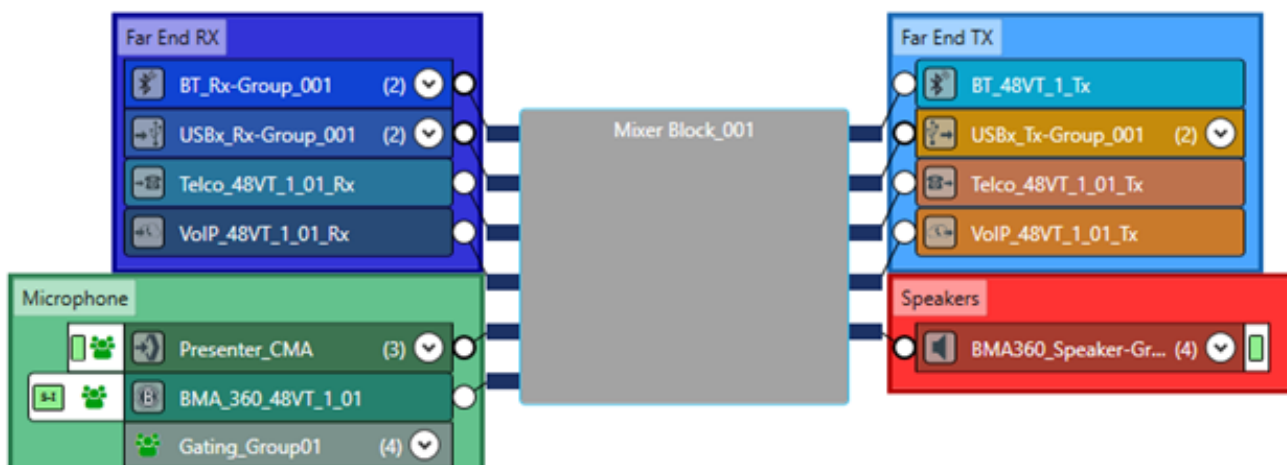
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Wiring Diagram

NOTE: ANY INDIVIDUAL P-LINK MUST NOT EXCEED 200 FEET / 61 METER IN LENGTH

Balanced Audio

CAT 6

NETWORK
VOIP

RJ 11

TELEPHONE
LINE

MJ 11

LS7CT CEILING SPEAKERS
PN# 910-151-001-01-1

P-Link

P-Link

Speaker

Converge Pro 2 128VT
PN# 910-3200-009

POE

BMA 360 MICROPHONE ARRAY
PN# 910-3200-208

CEILING MICROPHONE ARRAY
PN# 910-001-013-W

90W POE
PN# 910-3200-209

P-Link

POWER

USB EXPANDER
PN# 910-3200-302

36W POE
PN# 910-3200-202

BYOD
LAPTOP

USB

USB

HDMI

DISPLAY

UNITE 150 Camera
PN# 910-2100-004

INTERNET

OPEN NETWORK

COLLABORATE Versa Hub
PN# 910-3001-100

LEGEND	
	SPEAKER (18 AWG Wire)
	POE
	USB
	HDMI
	P-LINK (CAT 6)
	NETWORK (CAT 6)
	BALANCED AUDIO

Equipment list:

Qty	Part Number	Product Name	Description
1	910-3200-008	CONVERGE® Pro 2 48VT	DSP Mixer with 4 Mic/Line AEC Inputs, 8 Mic/Line Outputs, USB Audio, VoIP, Telephone Interface, 2 x 10 Watt Power Amplifier.
1	910-3200-209	90W PoE++ power supply kit for BMA	Includes 1 x 90 Watt PoE++ Injector, 2 x 25 ft CAT6 cables.
1	910-3200-202	36W PoE++ power supply kit for BMA	Includes 1 x 36 Watt PoE+ Injector, 2 x 25 ft CAT6 cables.
1	910-3200-208	BMA 360 24 Inch	BMA with 4 x 15 Watt Power Amplifiers. PoE Injector and CAT6 cables not included. 910-3200-208-I 600 mm model also available.
1	910-3200-302	USB Expander for CONVERGE® Pro 2	Includes 6 ft USB cable.
2	910-151-001-01-1	Ceiling Speakers	Includes 2 x LS7CT ceiling speakers with 8 ohm and 70V/100V transformer taps and ceiling tile bridges.
1	910-3001-100	COLLABORATE Versa Hub	Hub that connects USB camera, USB audio, room displays and laptop.

FlowView™ Diagram

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Included Macros

- Microphone_Mute : Mutes both room BMA 360 Microphones.
- Microphone_Unmute : Unmutes both room BMA 360 Microphones.
- Room_SPKR_Mute : Mutes all room speaker channels.
- Room_SPKR_Unmute : Unmutes all room speaker channels.
- Room_VOL_DN : Decreases the room speaker volume by 3 dB per execution.
- Room_VOL-UP : Increases the room speaker volume by 3 dB per execution.
- Presenter_Mode : Enables the Presenters CMA microphone and mutes the Classroom BMA 360.
- QA_Mode : Enables both the Presenter CMA and the Classroom BMA 360.

* Macros can be executed via Telnet or serial communications.
  Refer to the Converge Pro 2 Serial Command Reference Manual for details.

Download the Medium Classroom Room files: **HERE**

SALES AND INQUIRIES