

Lecture Hall

Design Guide

DOC-0554-001 REV 1.2 – May 11, 2022

Room Application

Web Collaboration, Audio Conferencing, Voice Lift, Presentation, Wireless Microphones.

Included Interfaces

VoIP, Analog Telco, USB Audio, Camera, Voice Lift.

Primary Equipment

- CONVERGE® Pro 2 128VT
- BMA 360
- UNITE® 200
- UNITE® 150

Software/Firmware revisions utilized

- Console AI Version: 7.5.4.1
- DSP Version: 8.5.15.0
- BMA 360 Version: 1.0.6.10



Room Illustrations

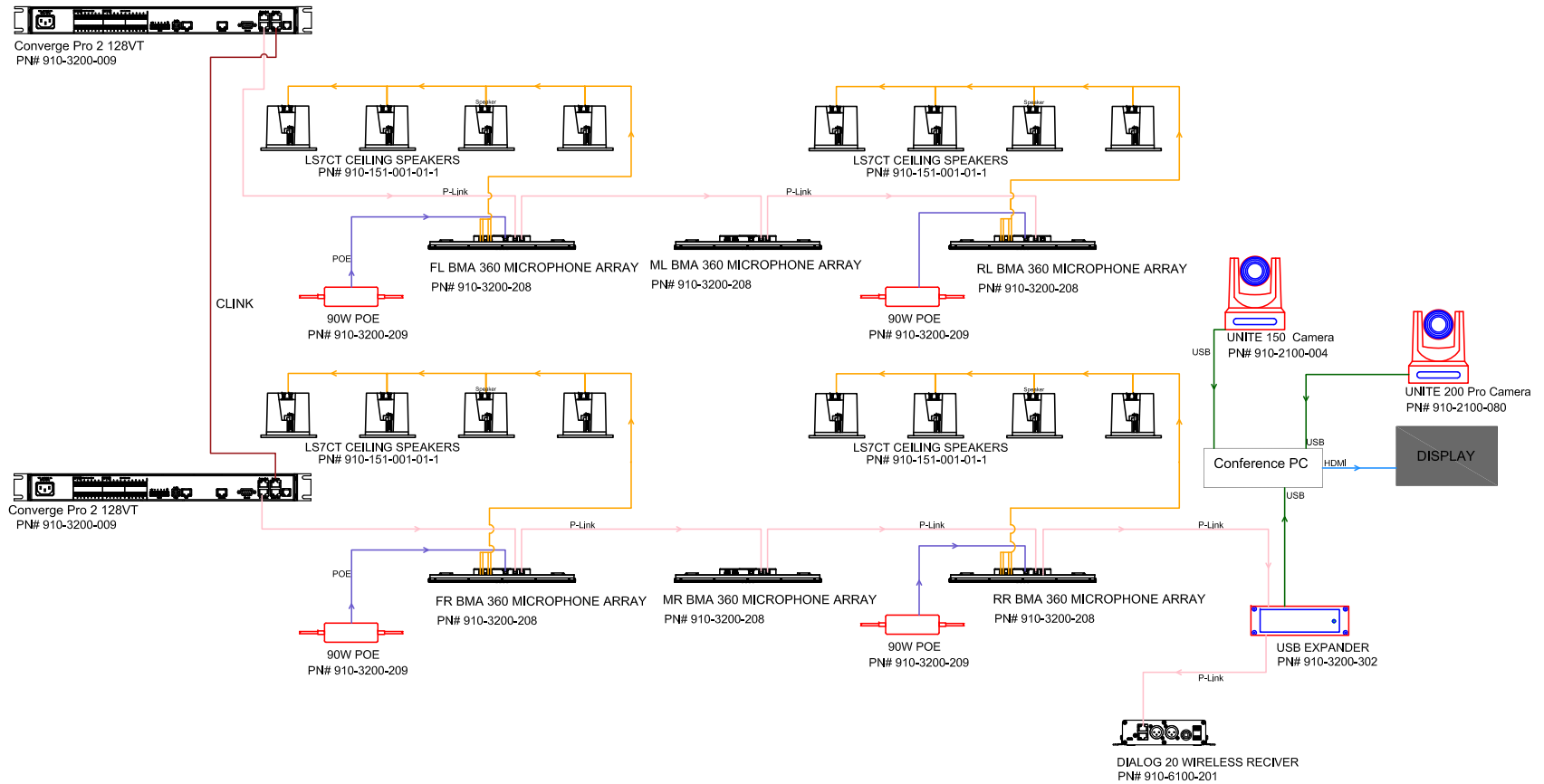


LARGE LECTURE HALL

Room Description

A large Lecture space with excellent Voice Lift capabilities and connectivity options. Everyone in this room can be heard, both locally and on the cloud or phone call connections. This design also provides full instructor control over the audience microphones as well.

Wiring Diagram



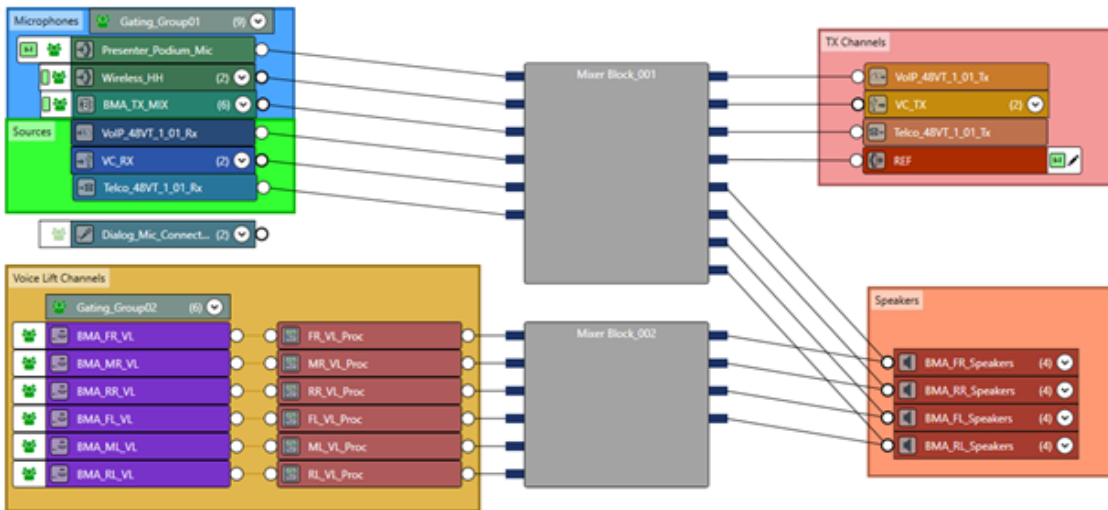
LEGEND	
	SPEAKER (18 AWG W/ire)
	POE
	USB
	HDMI
	P-LINK (CAT 6)
	NETWORK (CAT 6)

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

Equipment list:

Qty	Part Number	Product Name	Description
2	910-3200-009	CONVERGE [®] Pro 2 128VT	DSP Mixer with 12 Mic/Line AEC Inputs, 8 Mic/Line Outputs, USB Audio, VoIP, Telephone Interface
6	910-3200-208	BMA 360	BMA with 4 x 15 Watt Power Amplifiers. PoE Injector and CAT6 cables not included.
4	910-3200-209	90W PoE++ power supply kit for BMA	Includes 1 x 90 Watt PoE++ Injector, 2 x 25 ft CAT6 cables
1	910-6100-201	DIALOG 20 Wireless Receiver	2 Channel Wireless Receiver with 2.4 GHz RF band; Di-pole Antennas & USB power supply included; (Docking station and XLR-to-Euroblock adapter not included).
2	910-6103-001	DIALOG Handheld Transmitter H18	Wireless Handheld with H18, Condenser, Cardioid Microphone capsule with 2.4 GHz RF band
8	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.
2	910-2100-004	UNITE 150 PTZ Camera	PTZ camera with 12x optical Zoom, 1080P30 Full HD, USB
2	910-2100-003	UNITE 200 PTZ Camera	PTZ camera with 12x optical zoom, 1080P60 full HD, USB, HDMI, and IP connections
1	910-3200-302	USB Expander for CONVERGE [®] Pro 2	Includes 6 ft USB cable
1	910-6105-021	DIALOG Antenna Kit 25 Ft	Di-pole Antenna extension kit with pair of 25 Ft RG8 Plenum cables tuned for 2.4 GHz RF band, includes pair of mounting brackets. Antennas not included.

FlowView™ Diagram



Included Macros

- SPKR_UP : Increase speakers by 3 dB.
- SPKR_DOWN : Decrease speakers by 3dB.
- Presenter_to_Class_OFF : Remove Lift routing from Presenter to Class
- Presenter_to_Class_ON : Return Lift routing from Presenter to Class
- Mic_Mute_ALL : Mute all Lecture Hall microphones
- Mic_Unmute_ALL : Unmute all Lecture Hall microphones
- Mic_Mute_Lectern : Mute Presenter lectern microphone.
- Mic_Unmute_Lectern : Unmute Presenter lectern microphone.
- Mic_Mute_Wireless : Mute Dialog 20 wireless channels.
- Mic_Unmute_Wireless : Unmute Dialog 20 wireless channels.
- Mic_Mute_Class : Mute all Class BMA 360 microphones.
- Mic_Unmute_Class : Unmute all Class BMA 360 microphones.

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

Download the Lecture Hall files: [HERE](#)

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