

# House of Worship

## Design Guide

DOC-0558-001 REV 1.2 – May 11, 2022

### Room Application

Remote Worship,  
Audio Conferencing,  
Voice Lift, Presentation,  
Wireless Microphones

### Included Interfaces

VoIP, Analog Telco, USB Audio, Camera.

### Primary Equipment

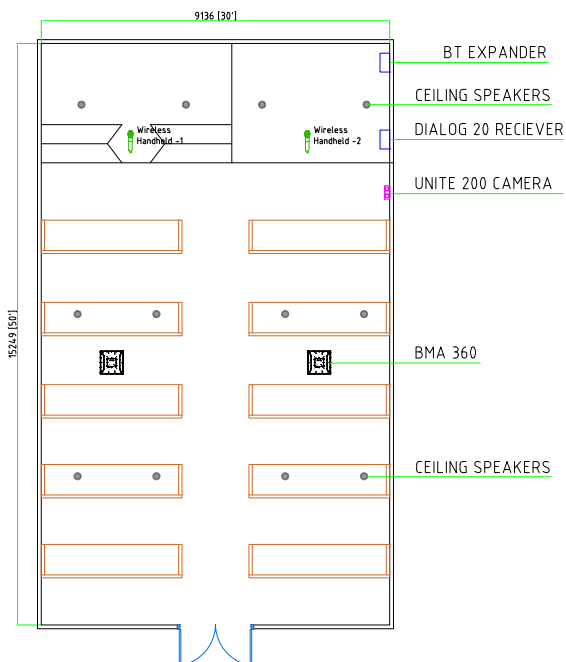
- CP2 48VT DSP Mixer
- BMA 360 Beamforming Microphone
- Unite 200 PTZ Camera
- Dialog 20 Wireless Microphone

### Software/Firmware revisions utilized

- Console AI Version: 7.5.4.1
- DSP Version: 8.5.15.0
- BMA360 Version: 1.0.6.10



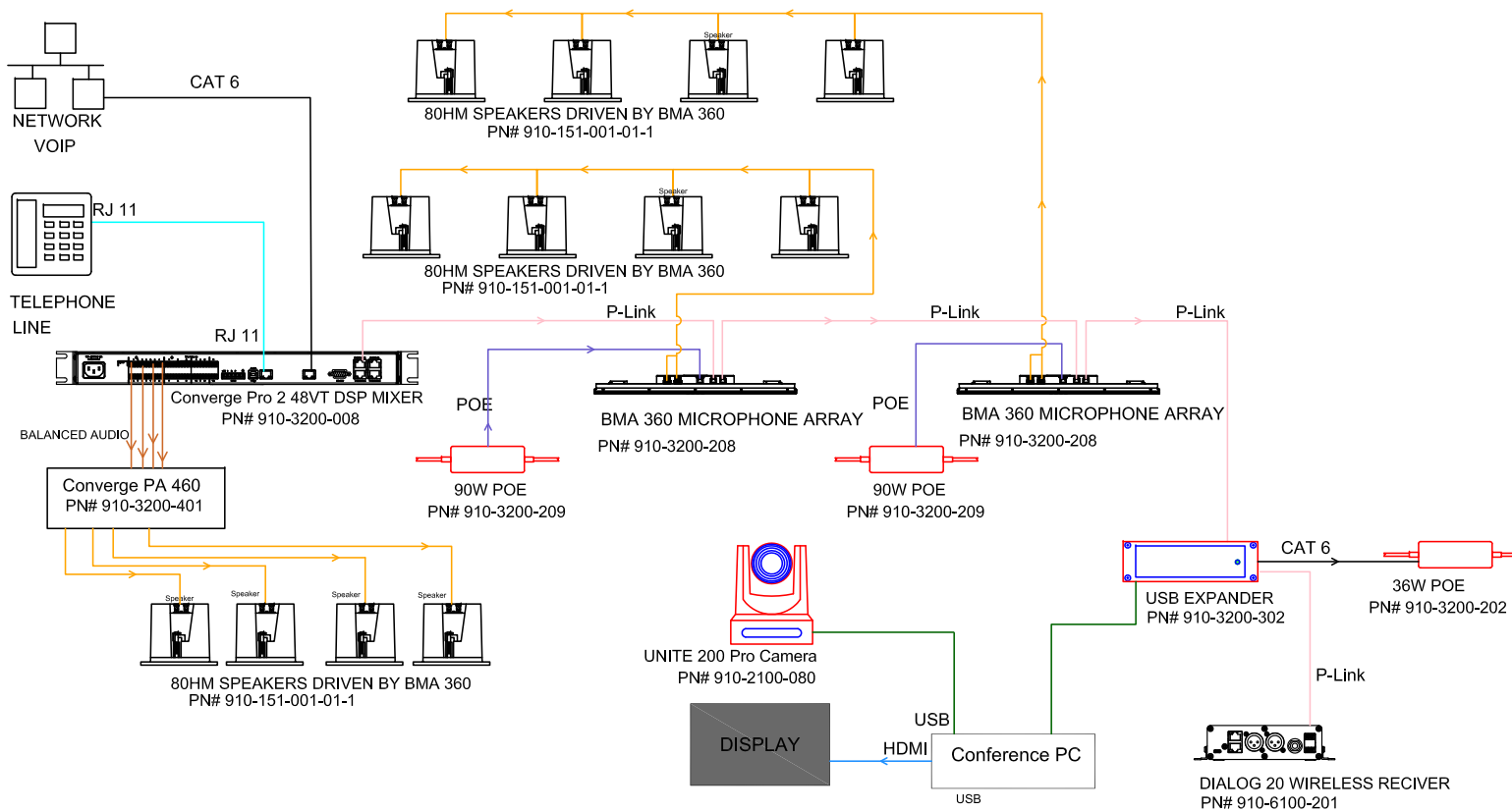
### Room Illustrations



### Room Description

This design provides both in room Voice Lift, excellent coverage and multiple connection options for remote attendees while keeping both cost and complexity at a minimum.

Wiring Diagram



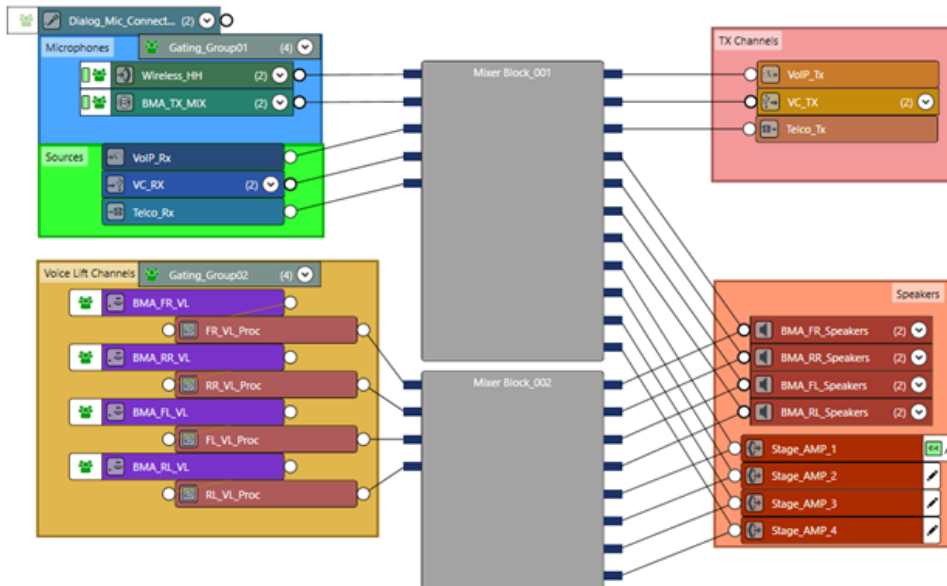
NOTE: ANY INDIVIDUAL P-LINK MUST NOT EXCEED 200 FEET / 61 METER IN LENGTH

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

**Equipment list:**

Qty	Part Number	Product Name	Description
2	910-3200-008	CONVERGE <sup>®</sup> 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
2	910-3200-208	BMA 360	BMA with 4 x 15 Watt Power Amplifiers. PoE Injector and CAT6 cables not included.
2	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
6	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	910-3200-202	36W PoE+ power supply kit for BMA	Includes 1 x 36 Watt PoE+ Injector, 2 x 25 ft CAT6 cables
1	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.
1	910-3200-401	CONVERGE <sup>®</sup> PA 460	4 Ch x 60 Watts Class-D audio power amplifier. Half rack size. Rack-mount kit not included.

## FlowView™ Diagram



## Included Macros

- SPKR\_UP : Increase speakers by 3 dB.
- SPKR\_DOWN : Decrease speakers by 3dB.
- Audience\_Lift\_OFF : Mute all local Audience Lift routing
- Audience\_Lift\_ON : Unmute all local Audience Lift routing
- Mic\_Mute\_ALL : Mute all microphones
- Mic\_Unmute\_ALL : Unmute all microphones
- Mic\_Mute\_Wireless : Mute Dialog 20 wireless channels.
- Mic\_Unmute\_Wireless : Unmute Dialog 20 wireless channels.
- Mic\_Mute\_Class : Mute all Audience 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 House of Worship Room files: [HERE](#)

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