

Product	Function
<b>Tesira SERVER-IO</b> (1) AVB-1 card, (3) DSP-2 cards, (1) DAN-1 card, (1) SOC-4 card	Handles all audio processing and routing, and also provides a Dante interface for wireless microphones. An analog output card is included to support failover for one of the amplifiers, and there is room left in the chassis to support future expansion for ambient noise compensation or other AV needs.
<b>TesiraLUX IDH-1</b>	Acts as an AVB talker. Processes video signals from cameras, laptops, and media players.
<b>TesiraLUX OH-1</b>	Acts as an AVB listener. Outputs networked video to displays and projectors.
<b>Tesira AMP-8175R</b>	Provides amplification to ceiling loudspeakers in the worship center.
<b>Tesira AMP-4300R CV</b> (1) EIC-4 card	Provides amplification to ceiling loudspeakers in the fellowship hall. Includes an expansion card for analog failover.
<b>Tesira EX-MOD</b> (2) EIC-4 cards, (1) EOC-4 card	Provides 8 inputs and 4 outputs in the worship center for group performances.
<b>Tesira TEC-1s</b>	Remote interfaces for the system that control background music sources, lighting, and volume control.

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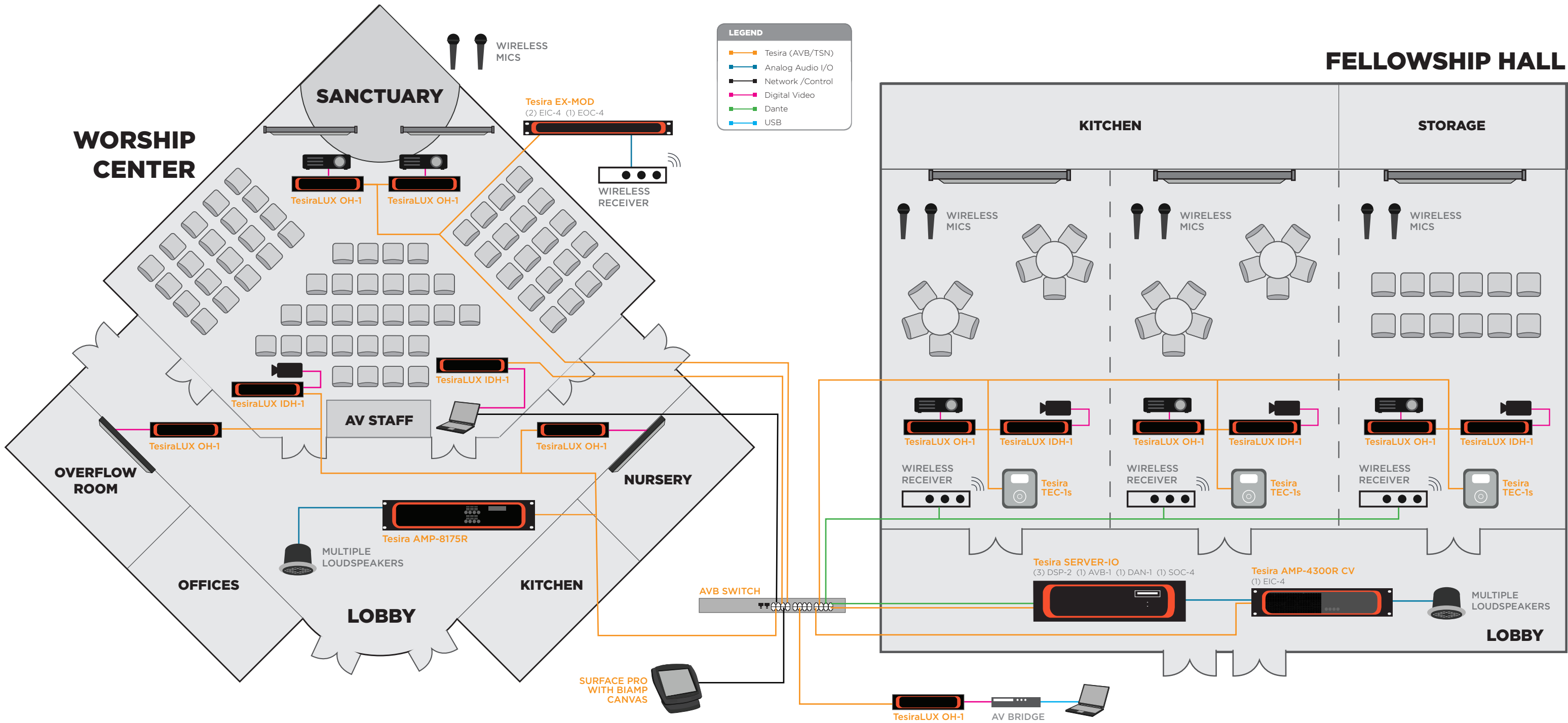
**SYSTEM DESIGN GUIDE**  
HOUSE OF WORSHIP CAMPUS  
Tesira®

AV systems in houses of worship have to address broad sets of requirements in order for worship leaders to communicate their message and keep their congregations engaged. The audio needs to be clear throughout the sanctuary, which is often architecturally challenging for voice reinforcement. Video is also increasingly used during services for several reasons — displaying song lyrics, informing parishioners of upcoming activities before and after the service, playing videos that support the topic of conversation, and overlaying information for parents who have children in the nursery.

The community aspect of worship often takes place in a separate building from the worship center, allowing for greater flexibility in room configuration and event scheduling. These fellowship halls also offer another potential source of revenue for houses of worship, should they choose to rent the halls out. One of the key contributors to entice outside interest is a robust AV system that can address several use case scenarios, such as wedding receptions, community gatherings, and adult and youth ministry activities.

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In this scenario, Tesira is ideal for managing the audio and video processing in both the worship center and fellowship hall. Low latency lip sync is crucial for the projectors in the front of the worship center. By controlling the entire signal path, Tesira is able to provide integrated lip sync management without the need to add audio delays to the loudspeaker runs. An optional AV bridge can capture the worship service directly to a PC for podcasts and other formats. In the fellowship hall, presets can rapidly reconfigure the audio and video routing, while a partitioned system design can allow work to be performed in unused areas without affecting any events currently underway.



## TESIRA FEATURES

- Audio and video processing and routing throughout the sanctuary and fellowship hall
- Multiple video sources can be streamed simultaneously to different rooms and screens
- Supports integration with Dante™ wireless receivers
- Impedance monitoring and analog failover available for loudspeakers