



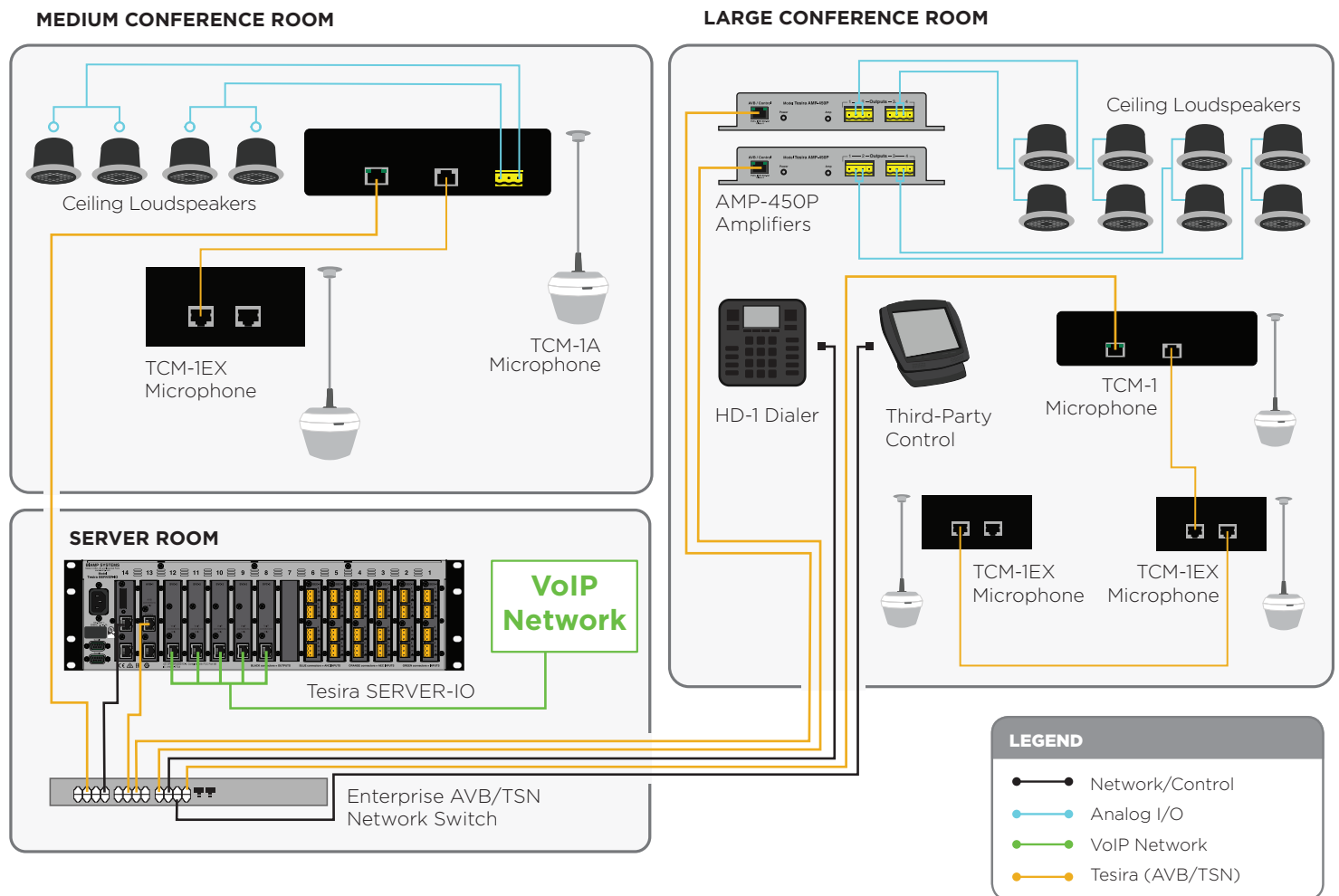
# SYSTEM DESIGN GUIDE CORPORATE CAMPUS

## TESIRA® SERVER-IO AND BEAMTRACKING™ MICROPHONES



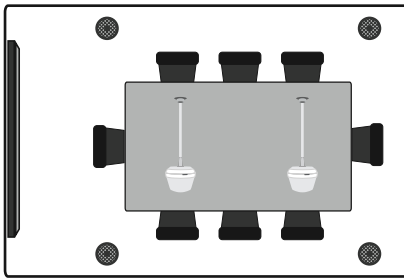
As the demand on audio systems increases, it's important to design a system that's flexible, scalable, and has the horsepower to make your audio sound great. A Tesira SERVER-IO solution is easily configurable, and allows you to leverage VoIP, while networking multiple rooms together over AVB/TSN. With Beamtracking microphones, conference participants can move around the room naturally without worrying whether the far end can still hear them clearly. In this scenario, the Tesira SERVER-IO supports 10 conference rooms in a corporate campus with VoIP and AVB/TSN networking.

### CONFERENCE ROOM EXAMPLES

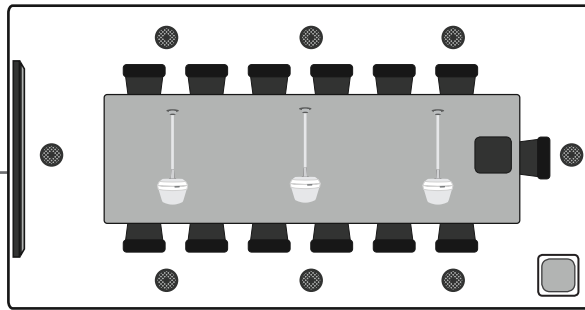


# CORPORATE CAMPUS FLOOR PLAN





## MEDIUM CONFERENCE ROOM



## LARGE CONFERENCE ROOM



## KEY

-  Ceiling Speaker
-  HD-1 Hardware Dialer
-  Third-Party Control Panel
-  Beamtracking Microphone



## SERVER ROOM

## EQUIPMENT LIST

| Quantity                                | Product  | Function   |
|---|--|--|
| <b>Server Room</b>                      |  |  |
| 1                                       | Tesira SERVER-IO<br>(1 AVB-1 card, 5 SVC-2 cards,<br>6 SEC-4 cards, 2 DSP-2 cards) | Configurable I/O DSP providing VoIP capabilities to all conference rooms. Fewer rooms would require fewer SVC-2 cards.   |
| 1                                       | Enterprise AVB/TSN<br>Network Switch   | Provides IEEE standard audio networking to each room with low latency and guaranteed QoS.  |
| <b>Medium Conference Room (6 Rooms)</b> |  |  |
| 1                                       | TCM-1A Microphone  | Actively tracks and intelligently mixes conversations from around the table. Each plenum box includes a 2-channel PoE+ amplifier with burst mode to handle peak signals. |
| 1                                       | TCM-1EX Microphone   | Expansion Beamtracking microphone that must be used with a Tesira TCM-1 or TCM-1A microphone.  |
| 4                                       | Ceiling<br>Loudspeakers  | Provides sound reinforcement for distance conferencing and/or videoconferencing.   |
| <b>Large Conference Room (4 Rooms)</b>  |  |  |
| 1                                       | HD-1 Dialer  | Enables telephony control in the conference room.  |
| 1                                       | Third-Party Control Panel  | Gives control to all room functions in the large conference rooms.   |
| 1                                       | TCM-1 Microphone   | Actively tracks and intelligently mixes conversations from around the table. Each plenum box includes an additional RJ-45 connector for daisy-chain connections.         |
| 2                                       | TCM-1EX Microphones  | Expansion Beamtracking microphone that must be used with a Tesira TCM-1 or TCM-1A microphone.  |
| 8                                       | Ceiling<br>Loudspeakers  | Provides sound reinforcement for distance conferencing and/or videoconferencing.   |
| 2                                       | AMP-450P Amplifiers  | Provides amplification to ceiling loudspeakers in the room.  |