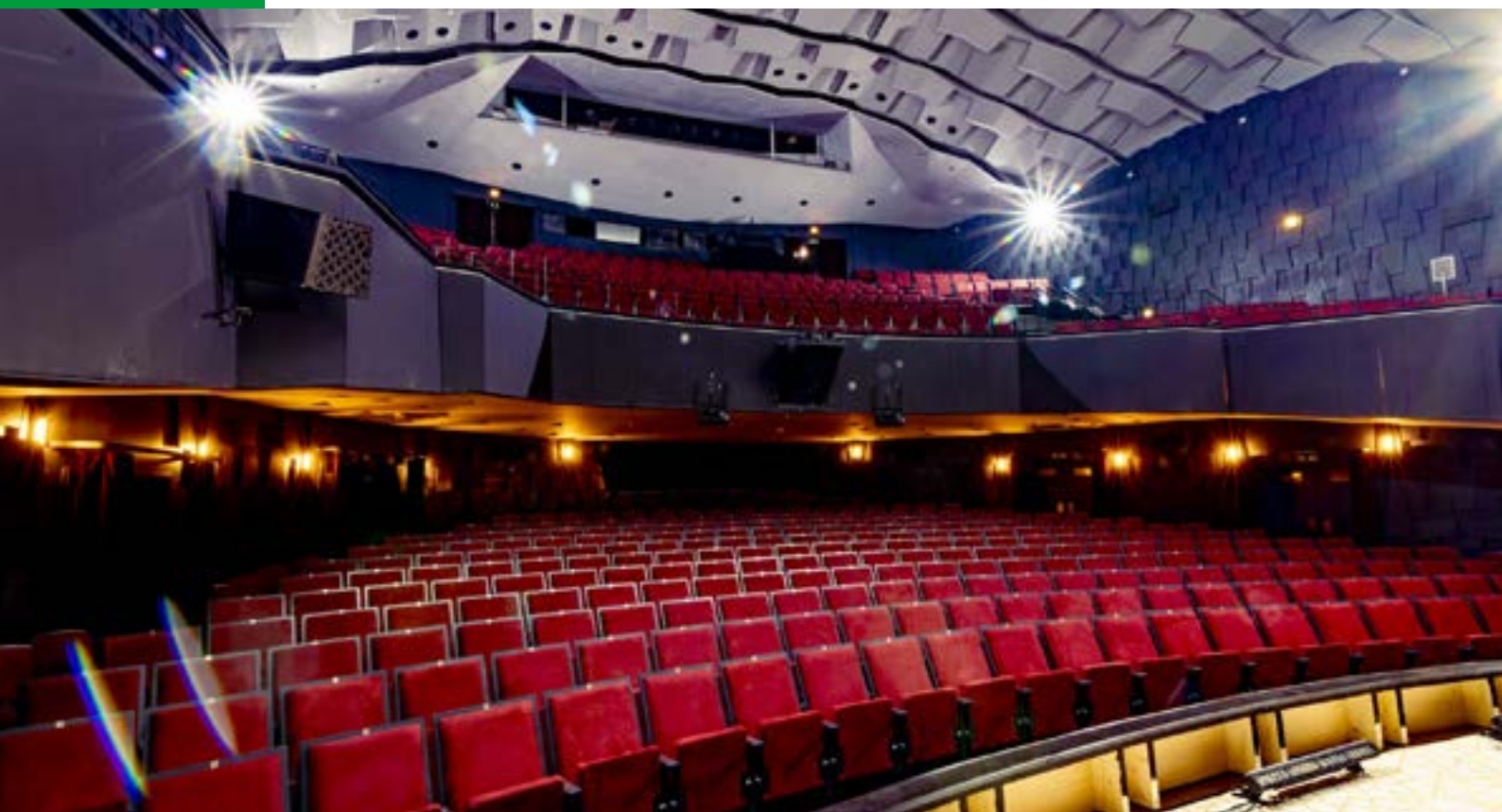




Additional Redundancy for AoIP Connected Wireless Microphone Receivers

OVERVIEW

A theatre in Central Europe was struggling with their wireless microphone receivers. The devices from one of the leaders in the market were connected to two switches (primary and secondary network) with a popular AoIP protocol, but the transmission was unstable, switches "forgot" their configurations and devices fell off the network and popped back randomly.

As the venue was already mixing on a DiGiCo console and had their amps fed by Optocore-capable devices, it was self-explanatory that this problem's solution lies within the loop too.

KEY REQUIREMENTS

1. Unparalleled transmission and operation stability
2. Plug-and-play operation
3. Occasional mobility

SOLUTION COMPONENTS

A node of an X6R-FX and two TP devices constructed. The theatre has 9 strips of four channel receivers, that sometimes travel to external locations.

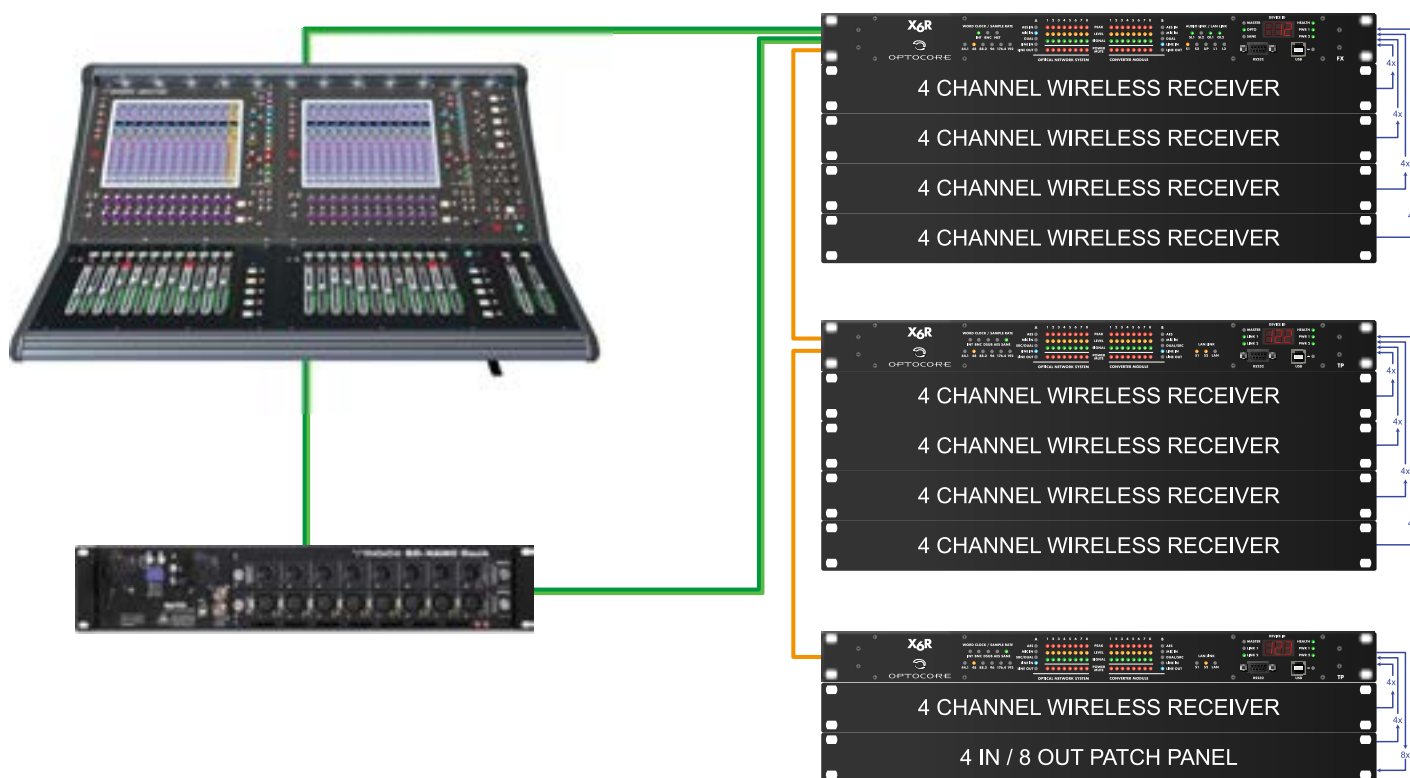
The receivers were split to two racks of 16 channels and one of 4 receivers and 4 additional inputs and 8 outputs, for when need arise. This makes the system

easily deployable at other locations, as audio and control data travels through just one Cat5e cable. Hooking up 36 channels worth of wireless receivers is just two Cat5 cables and fibres.

The X6Rs also seamlessly integrate into the system in the sense that as they are line level devices there is virtually no difference between the signal received through the Optocore loop and the AoIP DMI cards. The redundancy switchover can happen easily on one push of a Macro button.



SYSTEM SCHEMATICS



SYSTEM COMPONENTS

Optocore Device	Localization	Functions
X6R-FX-16LI	Machine Room	16x LINE IN
X6R-TP-16LI	Machine Room	16x LINE IN, 16x AES IO
X6R-TP-8LI/8LO	Machine Room	8 x LINE IN, 8x LINE OUT, 16x AES IO