

Application Example

Rental System for Different Digital Consoles

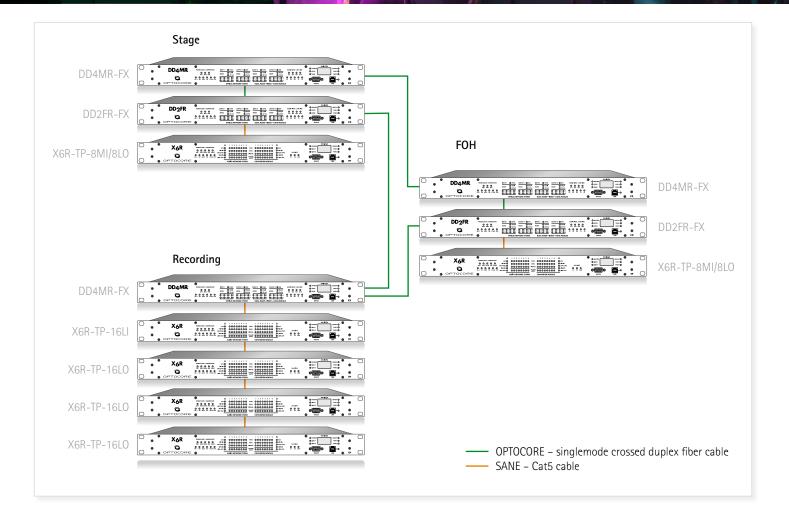
CHALLENGES:

- Rental system to be used with different digital consoles
- 3 locations to be connected Stage, Front of House and Recording truck
- Consoles are equipped with stageboxes provided by console manufacturer – connection between stagebox and console is MADI (Soundcraft, Studer, Lawo) or SNAKE (AVID)
- System should enable splitting signal directly from the stagebox or a mix from console to recording truck MADI, line and AES/EBU outputs
- DMX transport between FOH and stage
- LAN to control amplifiers on stage

DETAILED SIGNAL REQUIREMENTS:

- Stage with 2 x Snake connection for redundant AVID integration; 2 x MADI for Soundcraft, Studer and Lawo; additional Mic In, Line Out and AES/EBU I/O
- FOH with connections similar to Stage
- Recording with 128 MADI channels for ProTools, 16 x Line In and 48 x Line Out and 8/8 AES/EBU to connect additional recording interfaces





SOLUTION:

Stage:

- 1 x DD4MR-FX with special firmware for AVID Snake protocol
- 1 x DD2FR-FX allows connection of 2 stageboxes via MADI
- 1 x X6R-TP-8MI/8LO adds 8 Mic Inputs, 8 Line Outputs and 32 AES channels (16 pairs)

FOH:

- 1 x DD4MR-FX with special firmware for AVID Snake protocol
- 1 x DD2FR-FX allows two MADI ports connection to the console
- 1 x X6R-TP-8MI/8LO adds 8 Mic Inputs, 8 Line Outputs and 32 AES channels (16 pairs)

Recording:

- 1 x **DD4MR-FX** with standard firmware to provide two MADI ports for ProTools recording
- 1 x X6R-TP-16LI 16 Line Inputs for analog recording interface, with additional AES/EBU I/O
- 3 x X6R-TP-16LO 48 Line Outputs which can feed external analog recording interface

MAIN ADVANTAGES:

- One core system which supports multiple consoles can be used with many different system designs
- Digital passive split with full channel selection flexibility
- Redundancy provided by Optocore ring topology added redundancy for MADI point-to-point console-stagebox systems
- Scalability system can be easily extended to provide delay lines or additional front end preamps
- RS485 transport up to eight DMX universes between FOH and stage with digital DMX splitting
- LAN transport with redundancy to control amplifiers Optocore works as virtual switch



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