

ARCHITECTS & ENGINEERS SPECIFICATION for the DD32R-FX unit

The optical, digital I/O network module shall be part of a synchronous fiber optical network. It shall provide four principal ports for connection and transport of a total of 32 AES/EBU digital audio channels i.e. 64 mono channels. These channels shall be user definable as inputs or outputs pairs in groups of four (32 - 0, 28 - 4, 24 - 8, ... , 4 - 28, 0 - 32). Four RS485 interfaces shall exchange control data such as RS422, RS485, DMX and MIDI. Audio, video and data signals shall be transmitted via optical fiber. The device shall include bidirectional composite video and word clock interfaces. The module shall offer word clock input and output. Redundant power supply and safeguards against malfunctions shall be provided through a dual power supply unit with automatic switchover. The digital I/O device shall include two optical 1/2 Gbps SFP LINK interfaces with duplex LC-connectors, offering redundancy and providing maximum safety with a latency below 42 μ s. Additionally device shall be equipped with two LAN ports and two Synchronous Audio Network ports with Ethernet. Configuration and control shall be possible using the USB, LAN or RS232 ports. Control software shall operate on a PC, offering full remote access and upgradeable internal logic. LED banks on the front of the device shall provide comprehensive status control. The module shall be compliant with the CE/FCC conformity and shall be used in E1, E2, E3, E4, or E5 environments according to the harmonized European standards EN55103-1 and EN55103-2. The device shall be compliant with EN60065 - Safety requirements.

The optical, digital I/O network module shall be the Optocore® DD32R-FX unit.