
# DD32R-FX

## AES/EBU INTERFACE
## FOR OPTOCORE FIBER NETWORKS

DD32R-FX integrates 32 I/O-configurable
AES/EBU pairs with the Optocore fiber ring.

# OVERVIEW

DD32R-FX is an AES/EBU interface for the Optocore Fiber Networks. It features 32 AES/EBU pairs (64 audio channels) software-configurable as inputs or outputs in 8-channel blocks.

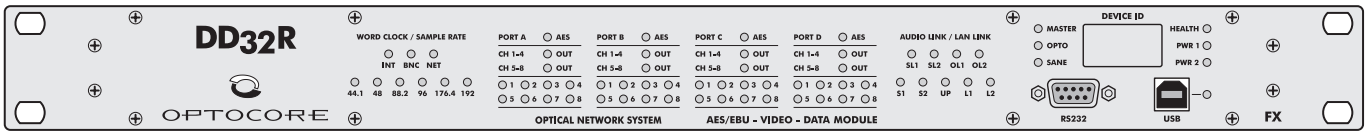
The DD32R-FX also comes equipped with Word Clock I/O, Composite Video input and output, two LAN Ports, two SANE Ports and four RS485/422 connections, all in a 1RU package using minimal power.

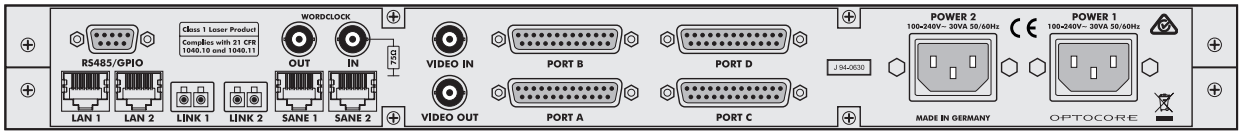
All DD32R-FX connections become inputs and outputs of the Optocore Fiber dual-ring network allowing long-distance transport and signal conversion combined with huge routing flexibility and system scalability – from point-to-point solution to advanced ring or star structure.

Uniquely, two fiber links with interchangeable transceivers connect DD32R-FX with the family of Optocore devices to transport up to 1024 audio channels, three video channels and control data including RS485, RS 422, DMX and MIDI.

OPTOCORE CONTROL software makes configuration easy and firmware updates maintain the device as state of the art, offering the highest audio quality and reliability, whatever the event.

## SCHEMATICS




## FEATURES

- 32 AES/EBU digital audio pairs = 64 channels
- Unique software switch to use as AES/EBU inputs or outputs.
- Two optical 2G links for the Optocore Network with hot-swappable SFP modules
- Two SANE Ports
- Two LAN Ports
- Four RS485 interfaces for the exchange of control data.
- Word clock I/O
- Composite video input and output
- Dual power supply with automatic switchover
- Third party software control for panels, touch screens, IP integrated control software
- Full remote access with OPTOCORE CONTROL software
- GPIO for automated show control
- Configuration and control via LAN, USB or RS232
- Upgradeable internal FPGA logic
- Comprehensive status information via LED banks on the front

# TECHNICAL SPECIFICATIONS

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|---|---|
| Audio Ports | **32 AES/EBU Digital Audio Pairs = 64 audio channels**<br>Connector: 4 x D-Sub25, 110 Ohm termination<br>Configuration: Software switchable I/O in 8-channel blocks; audio routing |
| Fiber Ports | **2 Duplex optical LINKs**<br>Protocol: OPTOCORE - 1024 audio channels, IP, data, sync<br>Connector: 2 hot-swappable SFP modules<br>Transmission, data rate: Dual ring, full duplex, 2Gbps data rate<br>Cable lengths: Multimode 50 µm ≤ 350m,<br>Single mode 9 µm ≤ 20km;<br>other lengths available on request with custom SFP |
| SANE Links | **2 RJ45 SANE links**<br>Protocol: SANE - 64 audio channels and 100Mbps LAN<br>Transmission, data rate: Full duplex, 200 Mbps<br>Cable length: CAT5, CAT5E, CAT6, CAT7 ≤ 100m |
| LAN Links | **2 RJ45 LAN links**<br>Protocol: FastEthernet, switch function across the entire Optocore and Sane network<br>Transmission, data rate: Full duplex, 10/100 Mbps<br>Cable length: CAT5, CAT5E, CAT6, CAT7 ≤ 100m |
| Auxiliary Ports | **4 RS485/422 channels**<br>Connector: D-Sub9, Convention EIA/TIA-485, 120 Ohm termination |
| Word Clock | **1 Input, 1 output**<br>Protocol: Word Clock; sample rate: 44,1 / 48 / 88,2 / 96 / 176,4* / 192* kHz<br>Connector: BNC, 75 Ohm termination |
| Video | **1 input, 1 output**<br>Protocol: composite video<br>Connector: BNC, 75 Ohm termination |
| Power Supply | **2 independent power supplies** with function check and automatic switch-over<br>Type: Switch-mode, universal input<br>Mains Voltage: 100...240 V<br>Frequency: 50...60 Hz<br>Power Consumption: 12 W typical |
| Remote Control | LAN: any LAN or SANE port<br>RS232: Convention EIA / TIA-232: RxD, TxD / 57.600 Baud<br>USB: Interface to PC |
| Dimensions (WxHxD) | 1 RU / 19": 483 x 44 x 200 mm 19.2 x 1.73 x 7.87 inch |
| Weight | 2.7 kg 6.0 lb |

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