

Option Board MADI I/O, Optical

Option Board MADI I/O, Optical (O_DAP_MO_MM_a, O_DAP_MO_SM_a)

Standards

- Relevant specifications comply with AES10-2008 and AES11-2009

Audio

- 24-bit, transparent forwarding of PCM and compressed audio
- Sample rate = 44.1, 48, 88.2, 96kHz (88.2, 96kHz short framing)

Important - Not all sample rates are supported by the host system, please refer to the respective information.

Optical Input, LC

- 64/56 channels @ 44.1 and 48kHz; 32/28 @ 88.2 and 96kHz
- Connector type = LC (IEC 61754-20)
- Center wavelength = 1310nm (typical), 1270 ... 1360nm
- Input optical power
 - O DAP MO MM a = -31 ... -8dBm, OM2 multimode (50/125um)
 - O DAP MO SM a = -23 ... -8dBm, singlemode (standard values, others upon request)
- Cable length maximum
 - O DAP MO MM a = 1.5km, OM2 multimode
 - O DAP MO SM a = 2km, singlemode (standard values, others upon request)

BNC Output

- Optical and BNC outputs carry the same signal
- Impedance = 75Ohm
- Output voltage = 0.6Vpp (typical) @ 75Ohm

General Features

- Field-replaceable optical module (SFP)

- Reference-grade Wordclock recovery, master-sync capable
- Dedicated routing for non-processed channels
- All channels (maximum 64) can be routed to/from the device or looped through
- AES3 channel status management, non-audio detection
- Parallel outputs (BNC/LC) for media conversion

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