

OPTOCORE CONNECTS EVERYTHING



The Fiber Infrastructure Solution
for the Pro Audio Industry
PRODUCT OVERVIEW

OPTOCORE TIMELINE

- 1993 OPTOCORE Technology Patent
- 1996 Release of the first OPTOCORE products
- 2000 OPTOCORE becomes a network with digital connectivity
- 2002 OPTOCORE implemented by DiGiCo
- 2003 OPTOCORE GmbH incorporated
- 2008 The OPTOCORE network triples in size
- 2009 Introduction of the R-series hardware platform
- 2012 The capacity of OPTOCORE is doubled to 2Gb
- 2014 OPTOCORE devices implemented in DiGiCo fiber system
- 2014 Clear-Com OEMs OPTOCORE technology creating ProGrid series
- 2015 Launch of new M-Series MADI Switches



OPTOCORE COMPANY PROFILE

Over the past two decades OPTOCORE has been the most prominent provider of time critical, redundant audio, video and control infrastructure over fiber.

OPTOCORE networks are used in a wide variety of environments, including opening and closing ceremonies of the world's most important events, as well as an alternative to copper infrastructures in OB vans, stadiums, studios and theatres. OPTOCORE systems scale down to point to point portable stageboxes with mixing console integration.

OPTOCORE is based on the open AES3 and AES10 (MADI) standards providing transport, routing, format conversion as well as distribution of audio, video and control data with full management and diagnostic capabilities.

Development and manufacturing

All technologies and products are developed and maintained by an in house R&D team. The R&D department strives for efficient and elegant design of hardware, software and firmware, mindful of planet's resources.

All assembly, testing and burn-in of our products is performed at our manufacturing base in Munich, Germany.

Education and training

OPTOCORE has a deep commitment to training and education. OPTOCORE offers a series of training seminars to educate the industry about OPTOCORE network design and operation as well as give an introduction to the digital audio and fiber optics technology. OPTOCORE Certification Training (OCT) seminars are hosted regularly around the world.

OPTOCORE Certification Training (OCT) is eligible for InfoComm CTS renewal units.

The high bandwidth infrastructure

OPTOCORE is a high bandwidth network designed specifically to meet the requirements of professional audio and data. OPTOCORE offers a unique solution that is flexible and scalable, yet intuitive and easy to use. OPTOCORE is a modern replacement for traditional copper cable plants and manual patching.

Open platform – the Autobahn for your audio, video and control

OPTOCORE is an open platform. Designed to transparently transport and route industry standard signal formats such as MADI, AES/EBU as well as Ethernet, DMX, MIDI, RS-485/422 and CAN BUS.

OPTOCORE converges and simplifies any cabling and patching infrastructure.

OPTOCORE Features

- De-centralized audio, video and data routing
- High capacity
- Control transport
- Low latency
- Redundancy
- Integration options
- Optical isolation
- Low cost of ownership
- Future proof hardware and software
- Scalability
- Lossless long distance transmission

OPTOCORE TECHNICAL PARTNERS



Avid Audio

Snake protocol redundant fiber transport
Snake digital split and format conversion



Axys by Duran Audio

Card interface – DM1-TP
Analog, MADI and AES/EBU interfaces to feed the loudspeakers



BroaMan

BroaMan units equipped with OPTOCORE technology
Full system integration for professional video, audio and data
OPTOCORE adds intelligence, networking and control bit to BroaMan systems



Clear-Com

Intercom interfaces – X6R/V3R-FX-INTERCOM
Matrix – panels redundant fiber transport
Audio, data, video and intercom system integration



DiGiCo

Direct fiber connection with the OPTOCORE network
Analog, MADI and AES/EBU interfaces for Digico ring
OPTOCORE preamps as well as routing control from the console



Fohhn

Card Interface with FX fiber or TP Cat5 connectivity
Analog, MADI and AES/EBU interfaces to feed the loudspeakers



Lawo

Console – stagebox redundant fiber transport
Format conversion
OPTOCORE preamps control from the console



Neumann.Berlin

AES-42 transport
Digital mic intergration



RTS

Intercom interfaces – X6R/V3R-FX-INTERCOM
Matrix – panels redundant fiber transport
Audio, data, video and intercom system integration



Solid State Logic

OPTOCORE preamps control from the console



Soundcraft

Console – stagebox redundant fiber transport
Format conversion
OPTOCORE preamps control from the console



Studer Professional Audio

Console – stagebox redundant fiber transport
Format conversion
OPTOCORE preamps control from the console



Yamaha Commercial Audio

Card interfaces – Y3R-TP, YG2, YS2
Console – stagebox redundant fiber transport
Format conversion
OPTOCORE preamps control from the console

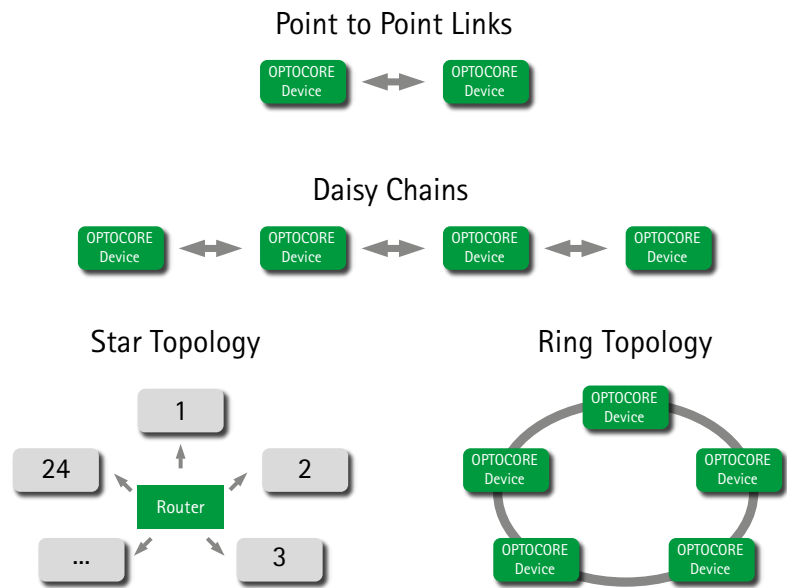
OPTOCORE TOPOLOGY OPTIONS

The OPTOCORE fiber network is capable of:

- up to 1024 audio input channels
- UNLIMITED number of outputs
- 32 routable Serial channels
- Composite Video transport
- Fast Ethernet transport and switching
- up to 24 device networks, expandable to 216 devices using SANE

SANE Cat5 network is capable of:

- up to 64 audio input and output channels
- Fast Ethernet transport and switching



OPTOCORE CAN CONNECT EVERYTHING

As an open standard platform Optocore provides universal connectivity to other third party devices. With its ability to transport audio, video, intercom, data over long distances via native fiber protocol, it guarantees the highest degree of flexibility and scalability in the industry.

Fiber

- fiber-based transport platform
- longest distances between the locations
- highest channel count
- point-to-point, star or ring topology
- hum-free environment
- light weight
- low cabling cost

Matrix

- 1024 inputs and unlimited outputs non-blocking matrix
- single-channel routing
- decentralized topology
- matrix crosspoints stored on each device independently
- multiple different I/O formats: MAD1, AES/EBU, analog, intercom
- control from software or 3rd party equipment

Redundancy

- redundant fiber protocol
- redundant PSU
- redundant sync operation – Word Clock and Video Sync
- extremely fast, non-audible recovery after failure

Integration

- integration of audio, video, intercom, sync, serial and Ethernet data
- simple integration with the Open Standards and 3rd party products
- multiple technology partners
- preamp control from 90% of digital consoles – one stagebox for multiple different desks

State of art products

- designed, manufactured and tested in Germany
- over 20 years of experience with fiber technology and audio networks
- network invented for professional audio and video environments
- lowest, fixed latency on the market 41,6 µs
- low power consumption
- fan-less operation
- large product portfolio with MAD1, AES/EBU, INTERCOM and ANALOG interfaces

OPTOCORE ANALOG CONNECTIVITY



X6R – 16 Channel Converter



V3R – 8 Channel Converter

The X6R and V3R platform allows customizable analog, digital and network connectivity utilizing state of the art circuitry for the highest sonic performance and ultimate reliability.

The devices are populated at the time of manufacturing with analog, digital and network options.

Network and Digital Connectivity Options:

FX – The OPTOCORE fiber network module

allows the converter to be used as a part of a 24 device OPTOCORE redundant ring network.

4 Serial ports - Word Clock I/O - 2 LAN ports - 2 SANE/LAN ports

TP – The SANE Cat5 module

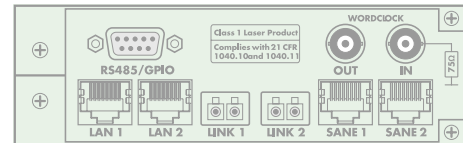
allows the converter to be used as a Cat5 expansion device for OPTOCORE FX devices or as a standalone analog – AES/EBU converter.

16 AES3 I/O - Word Clock I/O - 1 LAN port - 2 SANE/LAN ports

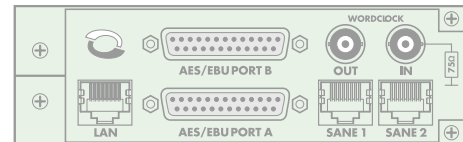
Converters

include AES3 ports for conversion to and from the analog inputs and/or outputs.

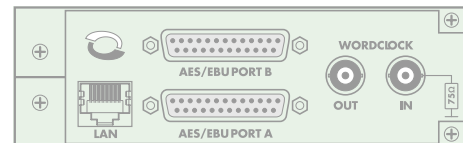
16 AES3 I/O - Word Clock I/O - 1 LAN port



FX – OPTOCORE fiber option



TP – SANE Cat5 option



Converter option



V3R Analog Connectivity – Euroblock

The X6R 16 channel converter can be populated with two 8 channel input or output modules for up to 16 inputs, 16 outputs or a mix of 8 inputs and outputs.

The V3R 8 channel converter can be populated with a single 8 channel input or output module.

Analog Devices:

X6R-16MI – 16 Mic Inputs

X6R-DualMI – 8 Dual-Mic Inputs

X6R-16LI – 16 Line Inputs

X6R-16LO – 16 Line Outputs

X6R-8MI/8LO – 8 Mic Inputs, 8 Line Outputs

X6R-8MI/8LI – 8 Mic Inputs, 8 Line Inputs

X6R-8LI/8LO – 8 Line Inputs, 8 Line Outputs

V3R-8MI – 8 Mic Inputs

V3R-8LI – 8 Line Inputs

V3R-8LO – 8 Line Outputs

The above connectivity combinations are available with FX, TP network modules; or as standalone Converters

X6R-FX-8AE/8MI – 8 AES I/O, 8 Mic Inputs

X6R-FX-8AE/8LI – 8 AES I/O, 8 Line Inputs

X6R-FX-8AE/8LO – 8 AES I/O, 8 Line Outputs

Connectivity Options:

MI – Microphone Inputs - 8 channel microphone preamp. High quality 1dB analog gain step preamplifiers.

DualMI – Dual Microphone Inputs - 8 channel dual microphone preamp, for a total of 16 network inputs. Each input is fed to two microphone preamps that can be independently routed and controlled on the network.

LI – Line Level Inputs - 8 channel Line Level Input module.

LO – Line Level Outputs - 8 channel Line Level Output module.

AE – AES3 I/O - 16 channel AES3 switchable I/O module.

Available for FX devices in two hardware versions - with or without input Sample Rate Converters. Can be ordered in conjunction with analog input and output modules.

Redundant Power Supply, DC input and XLR panels are available as options.

OPTOCORE INTERCOM CONNECTIVITY



X6R-INTERCOM – 8 Intercom ports with control



V3R-INTERCOM – 4 Intercom ports with control

The X6R-INTERCOM and V3R-INTERCOM platform allows customizable intercom, control and network connectivity, utilizing state of the art analog and digital circuitry for ultimate reliability.

The devices are populated at the time of manufacturing with intercom, control and network options.

Network and Digital Connectivity Options:

FX – The OPTOCORE fiber network module

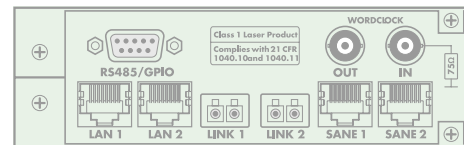
allows the intercom unit to be used as a part of a 24 device OPTOCORE redundant ring topology network.

4 Serial ports - Sync - 2 LAN ports - 2 SANE/LAN ports

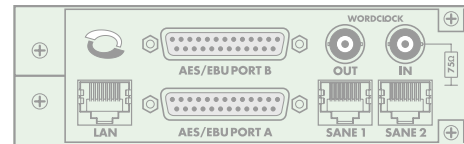
TP – The SANE Cat5 module

allows the intercom unit to be used as a Cat5 expansion device for OPTOCORE FX devices or as a standalone analog - AES/EBU converter.

16 AES3 I/O - Word Clock I/O - 1 LAN port - 2 SANE/LAN ports



FX – OPTOCORE fiber option



TP – SANE Cat5 option



X6R-FX-Intercom-IC422/IC485/ICAES – Four-Wire or AES3 Intercom ports



V3R-FX-INTERCOM-IC444 – Line Level I/O, GPIO, DC

The X6R-INTERCOM can be populated with two 4 input/output intercom modules for up to 8 inputs/outputs, with an intercom specific control option.

The V3R-INTERCOM can be populated with a 4 input/output intercom module with an intercom specific control option.

Intercom Devices:

X6R-INTERCOM-IC422 – 8 Four Wire Clear-Com Matrix Ports

X6R-INTERCOM-IC485 – 8 Four Wire RTS Matrix Ports

X6R-INTERCOM-IC444 – 8 Line Level I/O and GPIO

X6R-INTERCOM-ICAES – 4 AES/EBU based Intercom four-wire ports

V3R-INTERCOM-IC422 – 4 Four Wire Clear-Com Matrix Ports

V3R-INTERCOM-IC485 – 4 Four Wire RTS Matrix Ports

V3R-INTERCOM-IC444 – 4 Line Level I/O and GPIO

The above combinations are available with **FX** and **TP** network modules.

For information about integration with a professional network for 3G/HD/SD-SDI video products please visit www.broaman.com

Connectivity Options:

IC422 – Clear-Com Four Wire Intercom Ports with Serial Control

4 Four Wire Clear-Com Ports with Line Level and RS422 Serial Inputs and Outputs for Clear-Com key panels, matrices and interfaces.

IC485 – RTS Four Wire Intercom Ports with Serial Control

4 Four Wire RTS Ports with Line Level and RS485 Serial Inputs and Outputs for RTS key panels, matrices and interfaces.

IC444 – Line Level Inputs and Outputs, GPIO and DC output

4 Line Level inputs and outputs with optically isolated General Purpose Inputs and relay switched General Purpose Outputs.

Auxiliary DC outputs to power external circuits.

ICAES – AES/EBU Intercom Ports

Four Ports for AES/EBU based intercom systems with fully 32 bit transparent AES3 input and output on a single RJ45 connector, allowing seamless integration with AES-based intercom systems.

Redundant Power Supply and DC input available as options.

OPTOCORE MADI CONNECTIVITY



M12



M12-OPT/BNC



M8-BNC

M-Series standalone optical/BNC MADI switches offer single-channel routing and bridging capabilities. They can be networked and integrated with the optical OPTOCORE® and Cat5 SANE digital network systems. Single unit provides up to eight duplex MADI ports, offering up to 512 input and 512 output digital audio channels.

The devices are designed and built utilizing state of the art digital circuitry for ultimate reliability and operational flexibility.

The M-Series are the perfect main MADI hub units for a wide range of professional audio devices with MADI inputs and outputs such as digital consoles, DAW, playback devices and professional broadcast units. The huge number of channels exchanged by one M-Series device makes it the ideal and the most cost effective interface for digital console systems as well as a perfect central device offering individual channel routing feature.

M12-OPT

8 x duplex optical MADI ports – 512 IN / 512 OUT
 2 x high-speed uplinks for OPTOCORE®
 2 x SANE ports for MADI Cat5, X6R/V3R/Y3R-TP or LAN connectivity

M12-BNC

8 x dual coaxial MADI ports – 512 IN / 512 OUT
 2 x high-speed uplinks for OPTOCORE®
 2 x SANE ports for MADI Cat5, X6R/V3R/Y3R-TP or LAN connectivity

M12-OPT/BNC

4 x duplex optical MADI ports
 4 x dual coaxial MADI ports
 2 x high-speed uplinks for OPTOCORE®
 2 x SANE ports for MADI Cat5, X6R/V3R/Y3R-TP or LAN connectivity

M8-OPT

4 x duplex optical MADI ports – 256 IN / 256 OUT
 2 x high-speed uplinks for OPTOCORE®
 2 x SANE ports for MADI Cat5, X6R/V3R/Y3R-TP or LAN connectivity

M8-BNC

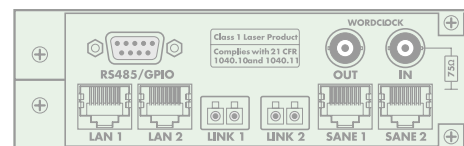
4 x dual coaxial MADI ports – 256 IN / 256 OUT
 2 x high-speed uplinks for OPTOCORE®
 2 x SANE ports for MADI Cat5, X6R/V3R/Y3R-TP or LAN connectivity

Network and Digital Connectivity Options:

FX – The OPTOCORE fiber network module

allows the MADI switches to be used as a part of a 24 device OPTOCORE redundant ring topology network.

4 Serial ports - Word Clock I/O - 2 LAN ports - 2 SANE/LAN ports



FX – OPTOCORE fiber option

OPTOCORE MADI CONNECTIVITY



DD2FR-FX – 2 Optical MADI Ports with analog video



DD4MR-FX – 2 Coaxial MADI Ports with analog video

The DD2FR-FX and DD4MR-FX allow transparent, high capacity, open standard MADI connectivity to and from OPTOCORE networks.

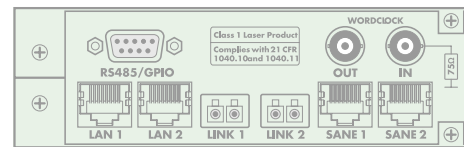
The devices are designed and built utilizing state of the art digital circuitry for ultimate reliability and operational flexibility.

Network and Digital Connectivity Options:

FX – The OPTOCORE fiber network module

allows the converter to be used as a part of a 24 device OPTOCORE redundant ring topology network.

4 Serial ports - Word Clock I/O - 2 LAN ports - 2 SANE/LAN ports



FX – OPTOCORE fiber option



DD2FR-FX – 2 Optical MADI Ports with analog video



DD4MR-FX – 2 Coaxial MADI Ports with analog video

Connectivity Options:

DD2FR-FX

2 Optical 64 channel MADI ports.
Composite Video Input and Output.

DD4MR-FX

2 Coaxial 64 channel MADI ports.
Composite Video Input and Output.

Redundant Power Supplies supplied as standard.

DC input optionally available.



OPTOCORE AES/EBU CONNECTIVITY



DD32R – 64 Channel AES3 device



X6R – 16 Channel AES3 device

The DD32R-FX and X6R allow customizable AES3 digital and network connectivity.

The devices are populated at the time of manufacturing with connectivity and network options.

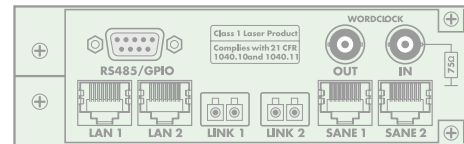
The devices are designed and built utilizing state of the art digital circuitry for ultimate reliability and operational flexibility.

Network and Digital Connectivity Options:

FX – The OPTOCORE fiber network module

allows the converter to be used as a part of a 24 device OPTOCORE redundant ring topology network.

4 Serial ports - Word Clock I/O - 2 LAN ports - 2 SANE/LAN ports



FX – OPTOCORE fiber option



DD32R-FX – AES Connectivity – 25DSUB



X6R-FX – AES Connectivity – Euroblock

Connectivity Options:

DD32R-FX

32 AES3 pairs. Switchable as I/O in blocks of 4 pairs. Composite Video Input and Output

X6R-FX-16AE

8 AES3 pairs. Switchable as I/O in blocks of 4 pairs.

X6R-FX-16AE/SRC

8 AES3 pairs. Switchable as I/O in blocks of 4 pairs. Inputs equipped with Sample Rate Converters.

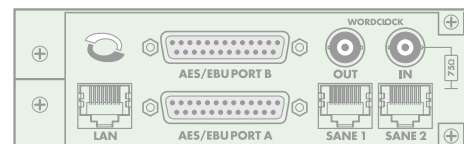
X6R-FX-8AE/8MI or 8LI or 8LO

8 AES3 pairs. Switchable as I/O in blocks of 4 pairs.

8 channel Microphone input, Line Level input/output module that can be used in place of 4 AES3 pairs.

All TP devices are equipped with 16 AES3 pairs assignable to the network, switchable as inputs or outputs in blocks of 4 pairs.

A redundant power supply (standard on DD32R-FX) and DC inputs are available as options.



AES3 ports on an OPTOCORE TP device

AES/EBU Devices:

DD32R-FX – 32 AES3 pairs, Composite Video I/O

X6R-FX-16AE – 8 AES3 pairs

X6R-FX-8AE/8MI – 4 AES pairs, 8 Mic Inputs

X6R-FX-8AE/8LI – 4 AES I/O, 8 Line Inputs

X6R-FX-8AE/8LO – 4 AES I/O, 8 Line Outputs

X6R-FX-16AE/SRC – 8 AES3 pairs with Sample Rate Converters

OPTOCORE INTERFACE CARDS



Y3R-TP – 16/16 Yamaha card

The **Y3R-TP Yamaha** card with SANE allows CAT5 connection to an OPTOCORE FX or TP device.

The Y3R-TP card is capable of 16 inputs and outputs. Multiple cards can be daisy chained from a 64 channel input / 64 channel output SANE port on an OPTOCORE FX device.

The Y3R-TP card is capable of transporting and converting the Yamaha HA Remote protocol and Fast Ethernet.



YG2 – 64/64 Yamaha master card

The **YG2 and YS2 Yamaha** cards allow a redundant fiber connection of a Yamaha mixing console console to a 1Gbit OPTOCORE network.

The YG2 card is capable of 64 inputs and outputs and connection to multiple YS2 slave cards.

A YG2 card is capable of transporting and converting the Yamaha HA Remote protocol and Fast Ethernet.



YS2 – 16/16 Yamaha slave card

OPTOCORE OEM MODULES

OPTOCORE is a worldwide known fiber technology provider. Our technology can be found in 3rd party equipment, which can be all integrated with the OPTOCORE products to create small or large digital fiber system.



Each **DiGiCo** console can be equipped with OPTOCORE card enabling fiber connectivity between DiGiCo components as well as OPTOCORE devices.



Duran Audio Axys column loudspeakers can be equipped with OPTOCORE or SANE card.



ProGrid system by Clear-Com is based entirely on OPTOCORE technology and design.



FOHNN column loudspeakers can be equipped with OPTOCORE or SANE card.



Fiber broadcast solutions from **BroaMan** utilise OPTOCORE technology.



MUX22 – all-in-one-box device from BroaMan portfolio is a hybrid solution which integrates professional video with OPTOCORE technology for intercom, AES/EBU, MADI, analog audio and data.



Route66 – the most powerful, flexible device allowing protocol independent routing up to 40 inputs and outputs. With unique feature of automatic fiber optic routing the most advanced device in the BroaMan lineup.



For more information about BroaMan products please visit www.broaman.com

OPTOCORE ACCESSORIES

OptoCable 4/150



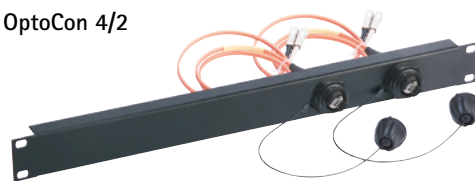
OptoCable 4/150

150m rugged environment cable mounted to Expanded Beam plugs on a special rubber cable drum OCD-R

OptoCon 4/1



OptoCon 4/2



OptoCon 4/1 – OptoCon 4/2

One or two expanded beam bulkheads mounted on a 1 U front panel
Each bulkhead is equipped with 2 lenses (maximum: 4)

Custom cables, connectors and accessories available upon request



OPTOCORE CONTROL SOFTWARE

The software enables complete control over an OPTOCORE network. It enables access to the patching matrix of all devices in the entire network and lets you remotely control and monitor connected devices, such as converter modules (gain setting, phantom power, input and output level readings).

OPTOCORE Control

The software allows the configuration of and access to the complete network, audio, data and video MATRIX, the naming and gain of all inputs, the configuration of the word clock, the provision of phantom power for all mic inputs, the storage and recall of the configuration set-up to/from PC hard disk, as well as the real-time level display of the individual channels.

Supervising the Network

Working in ON-LINE mode gives the possibility to control the complete network. Software automatically and in the real time alerts the system manager after every significant event, such as input clipping, fiber/CAT5 disconnection, RS232/USB/LAN connection status. A log window will automatically pop up on an event, if desired.

Input-output, Matrix and Patch

Any input of the system can be routed to any output by means of the Matrix tab. One input can be routed to more than one output.

RS485 and Video Settings

RS485 and video patch is confirmed by the local setting window, locally or via the network.

Specials

The OPTOCORE control protocol can be used by interested manufacturers or customers to control OPTOCORE devices directly from hardware other than a computer (mixing

desks, media controller, control boxes, etc.).

This is currently being implemented by various manufacturers, including DiGiCo®, Soundcraft, LAWQ, Solid State Logic and Yamaha®, allowing gain/phantom control of analog OPTOCORE devices (X6, X6R, V3R) directly from their digital consoles.

OPTOCORE Control software can be downloaded free of charge from the OPTOCORE Website.

OPTOCORE Control Software – Input Tab

1-16	Name	Output	Gain	Ph	Level	17-32	Name	Output	Gain	Ph	Level
1	Preamp 1 Mic 1	ID 1:1 PHSD In 1	15 dB			17	Preamp 1 Mic 9	ID 1:9 PHSD In 9	39 dB		
2	Preamp 1 Mic 2	ID 1:2 PHSD In 2	51 dB			18	Preamp 1 Mic 10	ID 1:10 PHSD In 10	27 dB		
3	Preamp 1 Mic 3	ID 1:3 PHSD In 3	51 dB			19	Preamp 1 Mic 11	ID 1:11 PHSD In 11	15 dB		
4	Preamp 1 Mic 4	ID 1:4 PHSD In 4	47 dB			20	Preamp 1 Mic 12	ID 1:12 PHSD In 12	30 dB		
5	Preamp 1 Mic 5	ID 1:5 PHSD In 5	15 dB			21	Preamp 1 Mic 13	ID 1:13 PHSD In 13	30 dB		
6	Preamp 1 Mic 6	ID 1:6 PHSD In 6	28 dB			22	Preamp 1 Mic 14	ID 1:14 PHSD In 14	0 dB		
7	Preamp 1 Mic 7	ID 1:7 PHSD In 7	28 dB			23	Preamp 1 Mic 15	ID 1:15 PHSD In 15	58 dB		
8	Preamp 1 Mic 8	ID 1:8 PHSD In 8	0 dB			24	Preamp 1 Mic 16	ID 1:16 PHSD In 16	0 dB		
9	Preamp 2 Mic 1	ID 2:1 V6 In 1	47 dB			25	Preamp 2 Mic 9	ID 2:9 V6 In 9	15 dB		
10	Preamp 2 Mic 2	ID 2:2 V6 In 2	51 dB			26	Preamp 2 Mic 10	ID 2:10 V6 In 10	39 dB		
11	Preamp 2 Mic 3	ID 2:3 V6 In 3	0 dB			27	Preamp 2 Mic 11	ID 2:11 V6 In 11	15 dB		
12	Preamp 2 Mic 4	ID 2:4 V6 In 4	40 dB			28	Preamp 2 Mic 12	ID 2:12 V6 In 12	0 dB		
13	Preamp 2 Mic 5	ID 2:5 V6 In 5	39 dB			29	Preamp 2 Mic 13	ID 2:13 V6 In 13	27 dB		
14	Preamp 2 Mic 6	ID 2:6 V6 In 6	60 dB			30	Preamp 2 Mic 14	ID 2:14 V6 In 14	0 dB		
15	Preamp 2 Mic 7	ID 2:7 V6 In 7	0 dB			31	Preamp 2 Mic 15	ID 2:15 V6 In 15	15 dB		
16	Preamp 2 Mic 8	ID 2:8 V6 In 8	0 dB			32	Preamp 2 Mic 16	ID 2:16 V6 In 16	0 dB		

Local Settings

Device: DD4MR-FX, Firmware revision: 2.21

General: ID 3, Master priority:

Clock setup: Sample rate: 48 kHz, Clock source: Auto, 75 Ohm termination:

RS485 setup: In: Channel 1-4, Out: Channel, Port: RS485

Ethernet setup: Setup mode: Auto 24x8, IP address: 192.168.0.0, Subnet mask: 255.255.255.0, MAC: 38.97.229.0.0.0

Video/Ethernet transport setup: In: Channel 1, Out: Disabled, Ethernet: System, Local

Port setup: Standard Channels, MADi 1 In: AES10-2003 (64/32 channels) 64, MADi 1 Out: AES10-2003 (64/32 channels) 64, MADi 2 In: AES10-2003 (64/32 channels) 64, MADi 2 Out: AES10-2003 (64/32 channels) 64, MADi Cat 2 In: AES10-2003 (64/32 channels) 64, MADi Cat 2 Out: AES10-2003 (64/32 channels) 64

I/O configuration: TP 2: X6R-16MicIn 16 In, TP 3: X6R-8DualMic 16 In, TP 4: X6R-8MicIn/8LineIn 16 In, TP 5: X6R-16LineOut 16 Out, TP 6: X6R-8LineIn/8LineOut 8/8 Standard, TP 7: Generic 16 Out, TP 8: X6R-8Intercom 8/8 Standard

Number of inputs restricted to 256, currently selected 256

Output Tab

1-16	Name	Input	Gain	Level
1	Stage Ret 1	ID 1:1 FOH 1 RET 1	-6 dB	
2	Stage Ret 2	ID 1:2 FOH 1 RET 2	4 dB	
3	Stage Ret 3	ID 1:3 FOH 1 RET 3	+10 dB	
4	Stage Ret 4	ID 1:4 FOH 1 RET 4	4 dB	
5	Stage Ret 5	ID 1:5 FOH 1 RET 5	4 dB	
6	Stage Ret 6	ID 1:6 FOH 1 RET 6	-6 dB	
7	Stage Ret 7	ID 1:7 FOH 1 RET 7	4 dB	
8	Stage Ret 8	ID 1:8 FOH 1 RET 8	0 dB	

Patching Matrix

Matrix: ID 1 - FOH 1, ID 2 - FOH 2

Log Window

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Status Time Message
Info 10:21:01 Online Mode enabled
Info 10:21:01 PC is attached to ID 1-DD32E (Hardware Revision: 1.03, Firmware Revision: 2.11). Both fiber connections enabled
Info 10:21:01 ID 2-LX4AP (Hardware Revision: 2.31, Firmware Revision: 2.11) found. Both fiber connections enabled
Warning 10:21:02 ID 2-LX4AP input 1 - overranged
Error 10:21:11 ID 1-DD32E: One fiber connection lost
Error 10:21:11 ID 2-LX4AP: One fiber connection lost
Info 10:21:17 ID 1-DD32E: Both fiber connections enabled
Info 10:21:17 ID 2-LX4AP: Both fiber connections enabled
    
```

SELECTED OPTOCORE SYSTEMS IN OPERATION

Broadcast

NRK – Norway
SIS Live – UK
Arena TV – UK
BBC – UK
NBC Studios – USA
Mediaset OB Van 27 – Italy
Coronation Street – UK
Videohouse – Belgium
SR – Germany



Installations

Cirque du Soleil Michael Jackson the ONE - Las Vegas, Nevada, USA
Royal Opera House – Muscat, Oman
Hard Rock Live – Biloxi, Mississippi, USA
National Theatre – London, UK
Komische Oper – Berlin, Germany
Moscow Art Theatre – Moscow, Russia
New Zealand Parliament – Wellington, New Zealand
Olympic Stadium – Berlin, Germany
Pittsburgh Hockey Arena, Consol Energy Center – Pittsburgh, Pennsylvania, USA



Live sound and events

2015 South East Asia Games – Singapore
2015 European Games – Baku, Azerbaijan
2014 Winter Olympic Games – Sochi, Russia
2012 Summer Olympic Games – London, UK
2008 Summer Olympic Games – Beijing, China
2004 Summer Olympic Games – Athens, Greece
Kuwait 50th Constitution Day – Kuwait City, Kuwait
Coldplay "Mylo Xyloto" World Tour
Grammy Awards – Los Angeles, USA



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Lohenstr. 8
82166 München-Gräfelfing
Germany
Phone +49 (0)89-89 99 64-0
Fax +49 (0)89-89 99 64-55
inquiry@optocore.com
www.optocore.com

Contact USA
inquiryNA@optocore.com