



Optocore Quick Start Guide

Rev. 2.21.024

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This document is intended to be an introduction to the Optocore Control Software and basic system configuration.

To expand an Optocore network using SANE devices, please refer to the SANE with Optocore Quick Start Guide. For further information, please refer to the Optocore Software Manual.

Important:

Do <u>not</u> connect Optocore devices before configuring device IDs and basic Local Settings (such as Sample Rate) using the Optocore Control Software.

Do <u>not</u> connect Optocore network to other devices until its configuration, operation, levels and signal flow have been verified.

Optocore Control Software installation

This chapter describes the installation of the Optocore Control Software.

Workstation, Client and Server installation setups

The Optocore Control Software has three different installation setup options that must be selected during the installation of the software: Workstation, Client/Server and Client only.

Optocore Network Serve

Client 1

LAN

Client 5

Client 2

Client 4

Client 3

The Workstation installation setup is recommended if only one computer controls the Optocore network.

When the Optocore network needs to be controlled from multiple computers (clients) the Client/Server installation setup of the software should be used.

The server allows remote clients to communicate to the Optocore network. All remote clients can manage the Optocore network through the server as long as they are connected to the same LAN network.

User accounts and access control can be setup using the Client/Server software.

To install the server select the "Client and Server" installation setup. On Client computers, not physically connected to the Optocore network, select the "Client only" installation setup.

The computer acting as a Workstation or a Server must be physically connected to the Optocore Network using USB, Ethernet or RS232 connection.

Software installation

Start the software installation program and follow the installation wizard.

Choose the installation setup type that meets your requirements.

Workstation: Select this option when you want to run Optocore in Workstation Mode. This is the preferred installation if multiple Clients are not needed.	
Client only: Install Client software. Select this option when this computer is a remote client and is not directly connected to Optocore devices.	
Client and Server: Install Client and Server Software. Select this option when this computer is a local client and is directly connected to Optocore devices.	
Workstation Workstation Client only	
Client and Server	

Please note:

Depending on the computer's operating system, the installer might need to be "Run as administrator"

The software is installed to the "C:\Program Files\Optocore" folder by default. If you would like to keep the previous software version, change a name of the folder containing the earlier software version before running the installer.

Once the software is installed, the connection method (USB, Ethernet, RS232), between the Workstation (or a Server) to the Optocore network, must be configured in the "Administration" -> "Server Options" dialog.

This manual refers to the Workstation setup of the Optocore Control Software.

Configuration

This chapter introduces the configuration concepts for an Optocore network. The configuration parameters should be set before the system is connected and operated.

Optocore network configuration

Each Optocore device in the network must have a unique ID number. The first step in configuring an Optocore network is to assign an ID to each device.

Enter the "Set" drop down menu and select "Configuration":

Configura	ation		_		-				_					-					×
Network	k																		OK
Name	Optocore	Туре	Optocore conf	îgurati	on 🔻														
Global	settings																		OK & Write
Fibre :	speed 1 Gb 💿 2 Gb 💿		Sample rate	48 kl	Hz 🔻			Audio inputs	768 🔻	System Ethernet	V		DiGiCo control						Cancel
	Device	Inputs	Name	MP	Local settings	Specia	al mor	de		Device	Inpu	ts	Name	MP	Local settings	Special	l mod	le	
ID 1	DD2FR-FX	64 🔻	MCR_Lawo		Setup	1	•	Setup	ID 13	X6R-FX-16MicIn	32	•	ST-1 In		Setup	Off	-	Setup	
ID 2	DD2FR-FX	64 🔻	CR-1_Studer	V	Setup	2	•	Setup	ID 14	X6R-FX-16MicIn	32	•	ST-2 In		Setup	Off	-	Setup	
ID 3	DD2FR-FX	128 🔻	CR-2_SSL	\checkmark	Setup	4	•	Setup	ID 15	X6R-FX-16MicIn	16	-	ST-2 In		Setup	Off	Ŧ	Setup	
ID 4	DD2FR-FX	40 🔻	OB-1_Lawo	\checkmark	Setup	Off	•	Setup	ID 16	V3R-FX-8MicIn	8	•	ST-3 I/O		Setup	Off	Ŧ	Setup	
ID 5	DD2FR-FX	256 🔻	OB-2_Studer	\checkmark	Setup	Off	•	Setup	ID 17	X6R-FX-16AES	8	•	ST-4 I/O		Setup	Off	Ŧ	Setup	
ID 6	DD4MR-FX	16 🔻	Station Route		Setup	Off	•	Setup	ID 18	V3R-FX-4Intercom	8	•	MCR		Setup	Off	Ŧ	Setup	
ID 7	DD32R-FX	48 🔻	Machine Roor		Setup	Off	•	Setup	ID 19	V3R-FX-4Intercom	8	Ŧ	CRs		Setup	Off	Ŧ	Setup	
ID 8	DD32R-FX	8 🔻	Machine Roor		Setup	Off	•	Setup	ID 20	V3R-FX-4Intercom	8	•	ST-1		Setup	Off	-	Setup	
ID 9	X6R-FX-8Intercom	8 🔻	COM Mbx		Setup	Off	-	Setup	ID 21	V3R-FX-4Intercom	8	•	ST-2,3		Setup	Off	Ŧ	Setup	
ID 10	X6R-FX-8Intercom	8 🔻	COM Mbx		Setup	Off	-	Setup	ID 22	None	0	•			Setup	Off	Ŧ	Setup	
ID 11	X6R-FX-16LineOut	0 🔻	ST-1 Out		Setup	Off	-	Setup	ID 23	None	0	•			Setup	Off	Ŧ	Setup	
ID 12	X6R-FX-16LineOut	0 🔻	ST-2 Out		Setup	Off	-	Setup	ID 24	None	0	•			Setup	Off	Ŧ	Setup	
Total n	umber of inputs: 768 of 768	в																	

· Select the configuration type as: "Optocore Configuration"

• Set the Optocore Fibre speed to "1Gb "or "2Gb", depending on the devices used in the Optocore network.

Please note:

All Optocore R-Series devices are capable of operating on a 2Gb network.

For systems that operate with older (non R-Series) devices in the network, 1Gb fibre speed must be selected

When using non-bandwidth optimized multimode fibre cables, operating the network at 2Gb will result in a loss of half of the maximum cable length between devices.

- Select a "Sample Rate" for the configuration
- Select "System Ethernet" to enable Ethernet transport on the Optocore network

Device ID and network input setup

Each Optocore device in the network must be assigned a unique ID number.

Please note:

The order of device ID does not need relate to physical connections of the network.

The lower the ID, the higher is the priority of the device to act as the network's master.

Assign lower IDs to installed devices than portable devices.

- To add a new ID to your network, select a relevant device type from the Select Device dialog.
- Select the maximum number of audio inputs needed from the device to the Optocore network.

Please note:

The utilization of the total channel capacity of an Optocore network is determined by the number of inputs from the device to the network.

The number of inputs configured for a particular device may differ from its number of available physical inputs, in order to optimize the use of available channel capacity.

Example:

A DD32R-FX can be set to have up to 64 physical input channels. Only 8 channels may be needed. In this case the DD32R-FX input number can be set to 8 in "Configuration" window and the remaining 56 input channels can be used for other IDs on the network.

The Configuration window allows naming the devices (ID) and to set additional "Master Priority (MP)".

At the bottom of Configuration window the total number of configured and available input channels can be seen.

Software Local Settings

The next step in configuring an Optocore network is to configure the Software Local Settings of each device, the Local Settings include a selection of word clock sources, RS485, Ethernet and Video transport as well as port configuration.

• In the "Configuration" window, click the "Setup" button in Local Settings column for the first device in the Optocore network and configure as needed

• Configure Local Settings for each device in the system.

Please note:

The Software Local Settings dialog differs depending on the device type.

Please note:

It is recommended to prepare a full Optocore configuration, including all Local Settings, before proceeding to writing the initial configuration to the devices.

Software Local Settings DD2FR-FX

evice												
info							Video/Ethernet tr	ansport setup				
Гуре	DD2F	R-FX					In	Disabled 👻	Out	Disabled		-
irmware revisio	on	2.21					Ethernet	√ System				
General							Edicified		V LUCA			
D	1			Mas	ter prio	rity	Port setup	Standard			Chan	nels
Clock setup							MADI 1 In	AES 10-2003 (64/	32 channe	ls) 🔻	16	•
Sample rate	48 kHz		-				MADI 1 Out	Disabled		•	64	-
Clock source	Auto		•	75 0	Ohm teri	mination	MADI 2 In	Disabled			64	-
RS485 setup							MADI 2 Out	AEE 10, 2002 (64)	22 channe		64	_
in	Chann	el 1-4				•	MADI 2 Out	AL310-2003 (04)	52 Charme	15/ •	07	_
Dut	Channe	el l	Port				MADI Cat 2 In	Disabled		•	64	Ψ.
Port 1	Chann	el 5	•	RS485		•	MADI Cat 2 Out	Disabled		•	64	-
Port 2	Chann	el 6	•	RS485		•		Device		I/O config	juratio	n
Port 3	Disable	ed .	-	R\$485			TP 2	Generic	•	8/8 Stan	dard	•
orco							TP 3	Generic	•	8/8 Stan	dard	•
Port 4	UISAble	20	•	RS485			TP 4	Generic	•	8/8 Stan	dard	•
Ethernet setup							TDE	Generic	-	8/8 Stan	dard	-
Setup mode			Auto 2	4x8		•	15 3	Concine		Coro Stari	uuru	_
P address			192	168	0	63	TP 6	Generic	•	8/8 Stan	dard	•
Subnet mask			255	255	255	0	TP 7	Generic	•	8/8 Stan	dard	•
	20	07	220		-		TP 8	Generic	-	8/8 Stan	dard	-
MAC	38	9/	229	U	1	U	Number of inputs	restricted to 64	urrently o	elected 7	,	

Software Local Settings DD32R-FX

Device							and the state					
Into							video/Ethernet ti	ransport setup		_		
Type Firmeria		DL	JS2K-FX				Video In	Disabled •	Out	Disabled	•	C
Firmware revisi	on		2.21				Ethernet	√ System				
General	_											
ID	8			Maste	er priorit	у	Port setup	Davias		10		
Clock setup								Device		1/O conng	jurauon	
Sample rate	48 kHz		-				Port A	Generic	•	16 Out	•	
Clock source	Auto		•	7 75 01	m termi	nation	Port B	Generic	•	16 Out	•	
DS495 cetup						ind don't	Port C	Generic	•	16 Out	-	
In	Disable	d				-	Port D	X6R-16LineOut	•	16 Out	•	
Out	Channe	1		Port			TP - ID 5	Disabled	•	8/8 Stan	dard 👻	
Port 1	Disable	d		 RS⁴ 	485	Ŧ			_			
Port 2	Disable	d		- RS	485	Ŧ	TP - ID 6	Disabled		8/8 Stan	dard 👻	
	Dicable	d d			40 5		TP - ID 7	Disabled	•	8/8 Stan	dard 👻	
Port 3	Disable	u			10.0		TP - ID 8	Disabled	•	8/8 Stan	dard 👻	
Port 4	Disable	d		▼ RS ⁴	485	Ŧ						
Ethernet setun								Standard			Channels	
Setup mode			Auto :	24x8		-	MADI Cat 2 In	Disabled		•	64 👻	
IP address			192	168	0	119	MADI Cat 2 Out	Disabled		•	64 👻	
Subnet mask			255	255	255	0						
MAC	38	97	229	0	8	0	Number of inputs	restricted to 8				

Software Local Settings X6R-FX

evice												
Info							Ethernet transpo	rt setup				
Type		X6R	-+x-16M	cIn			✓ System Ethen	net				Car
Firmware revi	sion		2	.21			Ethernet uses Vic	leo Channels 2 and	3. Also e	nable "System		
General							Ethernet in all of	her devices when u	ising this	reature.		
ID	14			Mast	er priorit	y	Ucai Eulerne	L				
Clock setup							Sane setup					
Sample rate	48 kHz		-					Device		I/O configuratio	n	
							FX	X6R-16MicIn	-	16 In	-	
Clock source	Auto		•	/] 7 5 O	nm termi	nation	TP - ID 2	X6R-16MicIn	•	16 In	•	
RS485 setup In	Disable	d				•	TP - ID 3	Generic	•	8/8 Standard	•	
	Cl.							Canadia			_	
Out	Channe			Por			TP - 10 4	Generic		o/o Stanuaru	-	
Port 1	Disable	d			485	*	TP - ID 5	Disabled	•	8/8 Standard	-	
Port 2	Disable	d		RS	485	~	TP - ID 6	Disabled	•	8/8 Standard	-	
Port 3	Disable	d		▼ RS	485	~	TP - ID 7	Disabled	-	8/8 Standard	-	
Port 4	Disable	d		 RS 	485	-	TP - ID 8	Disabled	•	8/8 Standard	~	
Ethernet setu	p											
Setup mode			Auto 2	4x8		•		Standard		Chan	nels	
IP address			192	168	0	167	MADI Cat 2 In	Disabled		▼ 64	-	
			200	-			MADI Cat 2 Out	Disabled		▼ 64	-	
Subnet mask			255	255	255	U						
мас	38	97	229	0	14	0	Number of inputs	restricted to 32, cu	rrently s	elected 48		

Word Clock setup

Select a Word Clock source for the device

Int - Internal Word Clock

BNC - External Word Clock, requires the Master Priority (MP) to be set in the "Configuration" window Auto – The device automatically switches to the external Word Clock when present

RS485 setup

Configures routing of serial signals connected to the four-channel Auxiliary Port.

• Select a four-channel serial input block to transmit serial signals from the device to the Optocore network. The signals will be available to every device on the Optocore network.

• Select a serial channel for each of the four output ports and configure the output as RS485 (for bi-directional serial signal) or RS422 (for uni-directional serial signals)

Please note:

For transport of MIDI and GPIO using the Auxiliary Port, please contact Optocore support – support@optocore.com

Fully bi-directional RS422 requires two serial channels.

Each serial input block can only be transmitted by one device on the network.

Video/Ethernet setup

Configures routing of composite video signals (DD32R-FX, DD4MR-FX, DD2FR-FX) and enables Ethernet.

- Select a channel to transmit the composite video input from the device to the network. This makes the video signal available on the Optocore network.
- Select a video channel to output a composite video signal from the network.
- Select "System Ethernet" to enable Ethernet on the Optocore network

System Ethernet can also be set for the entire system in the "Configuration" window.

• Select "Local Ethernet" to enable Ethernet on the Optocore device.

Port setup

AES/EBU port setup (DD32R-FX):

The AES/EBU ports of the device can be set to be generic AES/EBU inputs and/or outputs as needed for the system.

Additionally, the ports can be configured with profiles for connected Optocore converters such as the X6 and V3. Selecting these profiles enables software control of the converters, provided they are connected using an Optocore BI-B cable or equivalent.

MADI port setup (M-Series, DD2FR-FX and DD4MR-FX):

The MADI ports can be set to the 56 or 64 channel AES10 MADI standards as well as how many of the channels are accessible in the Optocore Control Software.

Sane/TP port setup (all FX devices): Please refer to the "SANE with Optocore Quick Start Guide".

Example:

Optocore DD32R-FX is to be used with an Optocore X6R-8MI/8LO converter connected to Port A and an AES/EBU device from a third party manufacturer with 16 analog outputs connected to Port B.

DD32R-FX's Local Settings for Port A: "X6R-8MI/8LO" - "8/8 Reversed" I/O Configuration.

DD32R-FX's Local Settings for Port B: "Generic" - "16 Out" I/O Configuration.

Port setup	Device	I/O configuration
	Device	
Port A	X6R-8MicIn/8LineOut 🔻	8/8 Reverse 🔻
Port B	Generic 🔻	16 Out 🔻
Port C	Disabled 🗸	16 In 👻
Port D	Disabled -	16 Out 👻
TP - ID 5	Disabled -	8/8 Standard 👻
TP - ID 6	Disabled -	8/8 Standard 👻
TP - ID 7	Disabled -	8/8 Standard 👻
TP - ID 8	Disabled 🔹	8/8 Standard 👻

Device writing

At this point all devices in the system should be configured in the Optocore Control Software.

The initial configuration is now ready to be written to each individual device.

• Connect to the device that is to be the first ID using the USB, Ethernet or RS232 port of the Optocore device

Please note: The software needs to be configured to connect to the devices using USB, Ethernet or RS232.

In the "Administration" drop down menu, select "Server Options" to set the connection method.

Refer to the Optocore Software Manual for setup of the Ethernet connection

• In the "Configuration" window, click on "OK & Write".

The "Device writing" dialog opens.

Devi	ce v	vriting							×
-Ne	etwo	rk							Close
		Device	Name			Device	Name		
IC	1	DD2FR-FX	MCR_Lawo	Write	ID 13	X6R-FX-16MicIn	ST-1 In	Write	
IC	2	DD2FR-FX	CR-1_Studer	Write	ID 14	X6R-FX-16MicIn	ST-2 In	Write	
IC	3	DD2FR-FX	CR-2_SSL	Write	ID 15	X6R-FX-16MicIn	ST-2 In	Write	
IC) 4	DD2FR-FX	OB-1_Lawo	Write	ID 16	V3R-FX-8MicIn	ST-3 I/O	Write	
IC	5	DD2FR-FX	OB-2_Studer	Write	ID 17	X6R-FX-16AES	ST-4 I/O	Write	
IC	6	DD4MR-FX	Station Router	Write	ID 18	V3R-FX-4Intercom	MCR	Write	
	7	DD32R-FX	Machine Room	Write	ID 19	V3R-FX-4Intercom	CRs	Write	
IC	8	DD32R-FX	Machine Room	Write	ID 20	V3R-FX-4Intercom	ST-1	Write	
	9	X6R-FX-8Intercom	COM Mtx	Write	ID 21	V3R-FX-4Intercom	ST-2,3	Write	
IC	0 10	X6R-FX-8Intercom	COM Mtx	Write	ID 22	None		Write	
IC	11	X6R-FX-16LineOut	ST-1 Out	Write	ID 23	None		Write	
IC) 12	X6R-FX-16LineOut	ST-2 Out	Write	ID 24	None		Write	
	_								

• Click on the "Write" button for the ID to be written. Found devices dialog appears. Choose the device you want to write to and let the software finish writing the device (this takes a few seconds).

• Verify that the device has the correct ID on the front panel and proceed to write the next device until all devices have been written.

Important:

It is very important to ensure that the correct ID is written to the correct device. The software will <u>not</u> warn the user if the same ID is being written to multiple devices.

Please verify the IDs on the physical devices before connecting the system.

• The system is now ready to be connected. The devices can be connected in any order.

OPTOCORE

Routing audio

After completing the configuration, audio can be routed between Optocore devices on the network.

In the Optocore Control Software, individual devices can be selected from the "Network Tree" on the left. Once a device is selected, audio can be routed to and from that device.

There are four methods available to route audio in the Optocore Control Software:

- From the device's input tab (by output name or by ID)
- From the device's output tab (by input name or by ID)
- Matrix crosspoints
- Set multiple channels

Please note:

It is recommended to name all devices, inputs and outputs before routing audio.

Please note:

Any input can be routed to multiple outputs. Multiple inputs cannot be routed to one output.

Routing audio using the device's input/output tab

- Select a device from the device tree.
- Select an input (or output) tab in main window and right click on the channel to be routed.
 - Select Matrix by ID
 - Select the device to route to (or from)
 - Select the output (or input).

Inputs MADI 1 Inputs MADI 2 Outputs MADI 1 Outputs MADI 2 Matrix MADI 1 Matrix MADI 2

1-	16			17-32					33	-48			49	-64		
	Name	Input	Level	Nam	me	Input		Level		Name	Input	Level		Name	Input	Level
1	Console IP 1	ID 4:1 Kick		17 Co	onsole IP 17	None		Figure 1	33	Console IP 33	None	Linin.	49	Console IP 49	None	La contra de la co
2	Console IP 2	ID 4:2 Sna	Matrix by Name	1-	ID 2 Marihan			Errore .	34	Console IP 34	None	Lee en e	50	Console IP 50	None	Firmer.
3	Console IP 3	ID 4:3 Tom I	Matrix by ID		ID 4 Stagebo	v 1	-	In 1 - 8 V In 1 Kic	k	Insole IP 35	None		51	Console IP 51	None	
4	Console IP 4	ID 4:4 Tom2			ID 4 Stagebo	× 2	-	In 9 - 16 🕨 In 2 Sna	are	insole IP 36	None		52	Console IP 52	None	
5	Console IP 5	ID 4:5 Tom3	Francis -		ID 7 FOH Co	mms	•	In 3 Tor	m1	msole IP 37	None	L	53	Console IP 53	None	[
6	Console IP 6	ID 4:6 OL	L		ID 8 Mon Co	mms	+	In 4 Tol	m2 m3	msole IP 38	None	L	54	Console IP 54	None	[
7	Console IP 7	ID 4:7 OR	L	23 Co	onsole IP 23	None		In 6 OL		msole IP 39	None		55	Console IP 55	None	
8	Console IP 8	ID 4:8 Bass	[24 Co	onsole IP 24	None		In 7 OR In 8 Bas	s	msole IP 40	None	E	56	Console IP 56	None	[
9	Console IP 9	ID 4:9 Gtr1	Francis -	25 Co	onsole IP 25	None		L	41	Console IP 41	None	La constante de	57	Console IP 57	None	La constante de
10	Console IP 10	ID 4:10 Gtr2	LI III III	26 Co	onsole IP 26	None		L	42	Console IP 42	None	LI.I.I.I.	58	Console IP 58	None	La caracita de la car
11	Console IP 11	ID 4:11 Voc1		27 Co	onsole IP 27	None		[43	Console IP 43	None		59	Console IP 59	None	[
12	Console IP 12	ID 4:12 Voc2	L	28 Co	onsole IP 28	None		L	44	Console IP 44	None	L	60	Console IP 60	None	
13	Console IP 13	ID 4:13 Voc3		29 Co	onsole IP 29	None		Firene	45	Console IP 45	None	Linin.	61	Console IP 61	None	La caración de la car
14	Console IP 14	ID 4:14 Laptop	L Freedor	30 Co	onsole IP 30	None		Freeze	46	Console IP 46	None	L	62	Console IP 62	None	Free Contraction (Contraction)
15	Console IP 15	ID 4:15 Laptop	R	31 Co	onsole IP 31	None		[47	Console IP 47	None		63	Console IP 63	None	
16	Console IP 16	ID 4:16 Amb		32 Co	onsole IP 32	None		L	48	Console IP 48	None	Firmer.	64	Console IP 64	None	Linin

• When inputs and outputs are named, routing can be established using the channel names

- Right click the channel to be routed on the input (or output) tab
- Select "Matrix by Name"
- Select the channel from the list, or enter the name of the output (or input) to route

Dutput Device ID 1 - M Dutput 1 - Lawo	CR_Law	10	
input Enter name Mi	c 10		
Input name	In	Device	-
Mic 53	5	ID 16 - ST-3 I/O	
Mic 53	21	ID 14 - ST-2 In	
Mic 54	6	ID 16 - ST-3 I/O	
Mic 54	22	ID 14 - ST-2 In	
	7	ID 16 - ST-3 I/O	-

Routing audio using the matrix

- Select the device you want to output signal from the device tree.
- · Select the Matrix tab
- · Route by clicking on a single crosspoint or by clicking and dragging over consecutive crosspoints



Please note:

Inputs are in vertical columns

Outputs of the selected device (from the device tree) are in horizontal rows

Please note:

The visibility of the matrix view can be adjusted for each device indivibually.

Go to the "Set" drop down menu and select "Matrix Visibility" Alternatively; set using the Matrix Visibility toolbar buttons (1-24) for the selected device

Routing audio using "Set Multiple Channels"

Routing and channel names can be set for multiple channels using the Set Multiple Channels.

- Select a device from the device tree•
- Specify a range of channels (for example 1-8)
- Specify channel names, routing, gain, pad and phantom power if needed.
- Click "OK"



Send routing to the Optocore network

Once the audio routing has been set, it can be sent to the Optocore network.

• Select from the drop down menu: "Action" -> "Send"

Please note:

The "Send" command, sends all audio routing, gain and phantom power settings to the network.

The "Send All" command, sends all network configuration parameters (except for IDs and Ethernet configuration) in addition to the audio routing, gain and phantom power

Going online

• Select from the drop down menu: "Set" -> "Online Mode".

The software will read out the current settings of the system and load into the software The Online/Offline indicator in the software will turn green.

- Verify the operation of the system and that all I/O meters indicate the expected levels
- The system is now ready to be used.

Equipment connected to the network can now be turned on and operated. Routing, gain, pad and phantom power control can be operated in real time and any changes are automatically stored in the network devices.

Firmware upgrade

Optocore firmware can be upgraded using a computer running Windows XP/Vista/7/8 with USB, Ethernet, RS232 serial port or an USB to RS232 adapter (COM ports 1 to 4 are supported in the upgrade utility).

R-Series and M-Series devices can be upgraded with USB, Ethernet or RS232. Other devices need to be upgraded using RS232.

Please note:

Computer serial interfaces are normally not capable of being "Hot Plugged". Switch off the computer to avoid damage before establishing a serial connection between an Optocore device and the computer.

Please note:

The firmware upgrade procedure must be performed locally for each device.

Important:

Keep all auxiliary equipment powered down and muted until the firmware upgrade of the system is complete and the systems configuration has been loaded and verified.

Startup dialog

- Start the Optocore Update utility by double clicking the OptorUpgrade.exe
 The Select Device dialog opens
- Select the device type to be upgraded
- · Select the USB/Ethernet/Serial port connected to the device

Please note:

Only R series devices can be selected when the USB or Ethernet ports are selected.

Entering Upgrade Mode

The software utility and Optocore device enter an Upgrade Mode. Current firmware and hardware version are read from the device.

User Text 1 shows detailed information about firmware – the exact firmware revision and date of release.

While device enters upgrade mode, front panel LEDs black out. (for X6R and V3R devices, cards configuration LEDs lit only)

Upgrade procedure

 Select from the drop down menu: "Upgrade" -> "Erase all settings" or click the

 File View Upgrade Help

 Image: Searching USB ... Uploading upgrade code ... Connection established

 You are connected to X6R-FX

 Hardware Version: V1.02

 Uploader Version: V1.08

 Serial Number: N94-0007

 Current Logic and DSP Firmware Version: V2.21

 Current Processor and HI Firmware Version: V2.21

 Current User Text 1: "Build: 2.21.022.141224.C"

 Current User Text 2: ""

Select device

Device

Port selection

Use port

Device type X6R(-TP)

COM1

Show this dialog at startup

"Upgrade" -> "Erase all settings" or click the proper button an the toolbar or use "F3" key.

• Select from the drop down menu: "Upgrade" -> "Upload Firmware", or. click the proper button an the toolbar or use "F4" key

Optocore Upgrade - X6R-FX

• Once the software utility prompts that the firmware upgrade is successful make sure that the "Exit upgrade mode" is selected and press "OK".

• After the device has rebooted, write the Local Settings to the device from the system's configuration file.



X

__ 0 <mark>_ x</mark>

OK

Cancel

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Cold boot

Cold Boot is an option to upgrade the firmware if a problem occurred when entering the Upgrade Mode or during the Firmware Upgrade process. The software utility will display a message that outlines the Cold Boot procedure.

Follow the steps described in the message box to initiate the Cold Boot:

- Power down the device
- From the Cold Boot dialog, select the COM port that you are using to connect to the device
- Press the "OK" button
- After pressing the "OK" button, turn on the device within 10 seconds

The communication will be established and you will be able to upgrade the device as normal

Please note:

Cold Boot can only be run over a RS232 serial connection or RS232 USB adapter.

Contact information

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