

- analog cables to the loudspeakers - lower signal quality and lower distance

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OPTOCORE

X6R-FX-16LO 16 x Line Outputs 4 x RS485, 4 x LAN

X6R-FX-16LI 16 x Line Inputs 4 x RS485, 4 x LAN

X6R-FX-16LO 16 x Line Outputs 4 x RS485, 4 x LAN

	TITLE Optocore + Fohhn loudspeakers		REVISIONS		
			DATE DESCRIPTION		
			150121 Drawn		
elfing	System Solution 1		-		
	DATE ORIGINAL	SCALE			
4 - 0 4 - 55	21-01-2015	NA			
om	LATEST REVISION	JOB NO.	CHECKED	DRAWN	
1	21-01-2015	NA	-	MJ	



## SOLUTION ADVANTAGES:

- each loudspeaker is connected to just two duplex fiber cables creating redundant ring - audio, control and GPI on same fiber - long distances between the loudspeakers (up to 120km) - no environment influence on signal quality

## SOLUTION DISADVANTAGES:

- each loudspeaker requires additional external card with external chassis (the chassis attached to the loudspeaker) - large amount of loudspeakers requires multiple rings

- price increase per each node (around 2000 EUR per loudspeaker)





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# **OPTOCORE + FOHHN INTEGRATION EXAMPLE 2: Fiber Connectivity between**

	TITLE Optocore + Fohhn loudspeakers System Solution 2		REVISIONS		
			DATE	DESCRIPTION	
elfing			150121	Drawn	
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1	21-01-2015	NA		-	MJ



### SOLUTION ADVANTAGES:

digital signal

- long distances between the loudspeakers (up to 120km on fiber, up to 100m on Cat5 nodes)

- no environment influence on signal quality with fiber, reduced environment influence thanks to twisted copper on Cat5

- reduced number of fiber rings in the system - more loudspeakers connected to the single fiber ring

SOLUTION DISADVANTAGES:

- each loudspeaker requires additional external card with external chassis (the chassis attached to the loudspeaker) - price increase per each node (around 2000 EUR per fiber node, much less per Cat5 SANE TP node)

# **OPTOCORE + FOHHN INTEGRATION EXAMPLE 3: Fiber and Cat5 Connectivity between loudspeakers**



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Each Fohhn loudspeaker equipped with extended as Cat5 daisy chain with 7

- 2 Cat5 SANE link (audio + Ethernet

- 2 Line Outputs for loudspeaker audio
- RS485 for loudspeaker management

	TITLE	TITLE Optocore + Fohhn loudspeakers		REVISIONS			
	Optocore + Fohhn loudspeakers			DESCRIPTION			
lfing	System Solution 3		-	-			
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4 - 0 4 - 55	DATE ORIGINAL	SCALE	-	-			
	21-01-2015	NA	-	-			
			-	-			
om	LATEST REVISION	JOB NO.	CHECKED		DRAWN		
1	21-01-2015	NA		-	MJ		