



NK-(3G, HD, SD, AES/EBU, Machine Control)



방송용급 Routing Switcher중에서 가장 많이 사용되고 있는 NK 시리즈는 소형이며 성능이 뛰어난 제품으로 Analog Video, Stereo Audio 신호는 물론 AES/EBU, 3G/HD/SD도 지원, 다용도로 유용하게 사용한다. 최근의 방송국 설비추세는 대용량 Router를 한 곳에 집중하여 배치하는 것을 지양하고 소형의 NK Router를 조정실, 편집실 등에 분산 배치, 이를 통합하여 원격 조정하는 시스템으로 진화하고 있다.



NK-164 & NK-16 Format



NK-32 & NK-34 Format



NK-64 & NK-72 Format

Features

- ▮ Distributed architecture, no single point of failure
- ▮ All signal (3G, HD, SD, AES/EBU, Analog Video/Audio), Data types supported
- ▮ Up to 32 independent routing levels
- ▮ Intuitive extendable GUI - Phoenix Control Surface
- ▮ Up to 2,000 data labels using NK-VRC (Virtual Routing Core)
- ▮ Low jitter for Digital Routers
- ▮ Various configuration and control options including control panels, web browser and Phoenix Control Surface

Ordering information

Router Series	16 x 4	16 x 16	32 (34)x 32(34)	64 x 64	72 x 72
3G/HD/SD	NK-3G164	NK-3G16	NK-3G34	NK-3G64	NK-3G72
D(AES/EBU-75Ω)	NK-D164-75	NK-D16-75	NK-D32-75	NK-D64-75	x
D(AES/EBU-110Ω)	NK-D164-110	NK-D16-110	NK-D32-110	NK-D64-110	x
V(Analog Video)	NK-V164	NK-V16	NK-V32	x	x
A(Audio/Stereo)	NK-A164	NK-A16	NK-A32	NK-A64	x
M(Machine Control)	x	NK-M16(16port)	NK-M32(32port)	x	x

Technical Specification

1. Input	3G/HD/SD	AES/EBU-75	AES/EBU-110	1. Input	Machine Control(Data)
Connection	75Ω BNC	75Ω BNC	110ΩDB-25	Connection	DB-9 female
Return Loss	>10dB/3G Hz	-	-	Electrical	RS-422
Level	800mV p-p	1V p-p	2 - 7V p-p	Standard	Auto port direction
Cable EQ.	100m, Belden 1494	Up to 300m RG-59/U	100m, Belden 1800B 110Ω cable	Direction	switching
2. output				2. Performance	
Connection	75Ω BNC	75Ω BNC	110Ω DB-25	Data Rate	Up to 115.2kBd
Clocking	reclock	Non-reclock	Non-reclock		
Level	800mV p-p	1V p-p	3 - 4V p-p		
Return Loss	10dB/3G Hz	-	-		
3. Performance				Dimensions	
Jitter	< 0.2 UI	< 2ns(0.013 UI)	< 2ns(0.013 UI)	- 16 x 4 1 RU x 19"x depth 64mm - 16 x 16 1 RU x 19"x depth 64mm - 32 x 32 2 RU x 19"x depth 64mm - 64 x 64 3 RU x 19: x depth 120mm - 72 x 72 3 RU x 19"x depth 120mm	
Data Rate	143Mb/s to 3 Gb/s	32KHz to 192KHz	32KHz to 192KHz		
Overshoot	< 10%	-	-		
Rise Time	Selectable SD/HD rise time	-	-		
4. General					
Partitioning	Up to 8 partitions with independent level assignment Web browser via NK-IPS, Phoenix Control Surface via NK-IPS				
Configuration					

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NK-3G/HD/SD Series



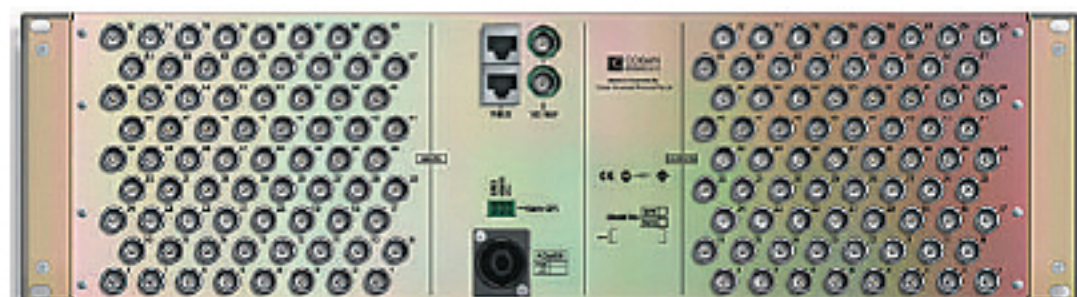
NK-3G164(16 x 4)



NK-3G16(16 x 16)



NK-3G34(34 x 34)



NK-3G72(72 x 72)

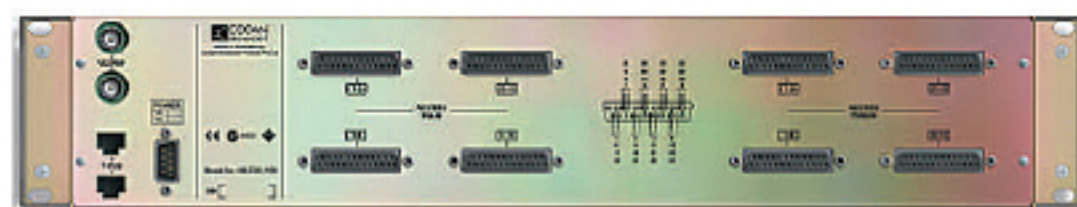
NK-D(AES/EBU)-110 Series



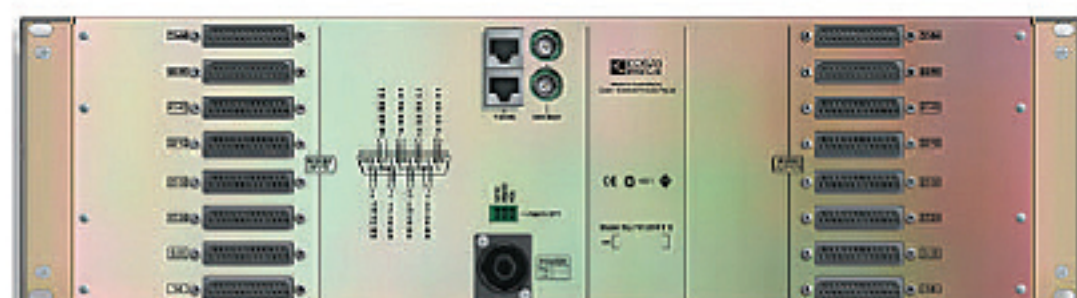
NK-D164-110(16 x 4)



NK-D16-110(16 x 16)



NK-D32-110(32 x 32)



NK-D64-110(64 x 64)

NK-D(AES/EBU)-75 Series



NK-D164-75(16 x 4)



NK-D16-75(16 x 16)



NK-D32-75(32 x 32)

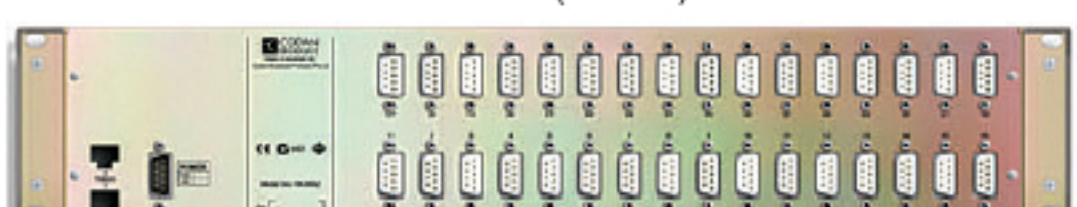


NK-D64-75(64 x 64)

NK-M(Machine Control/Data) Series



NK-M16(16 x 16)



NK-M32(32 x 32)

NK v2 Firmware

Source 지정	65,535
Detination지정	65,535
Control levels	32
Protect system	Multiple protect per control panel
Virtual Routing	가능
Support & Update	가능