NHB32-C

Network Hub and Bridge


NHB32-C

MIDI CobraNet `1U`

Rear Panel

32-in/32-out audio and control interface sends and receives digital audio and control signals via CobraNet.

- A single NHB32-C unit can support up to 32-channels of digital audio I/O, and one control signal I/O.
- Four separate 8-channel AES/EBU input/output terminals.
- CobraNet™ transfers high-quality 20-bit or 24-bit 48 kHz digital audio over four bundle paths in real time.
- MIDI, head amp remote (AD8HR, AD824) and amplifier control.
- NetworkAmp Manager software allows central control of both audio and control signals.
- Up to eight NHB32-C units can be networked, with each unit transferring and receiving four bundles, and 64 channels of digital audio can be received from any ACU16-C or NHB32-C on the network via CobraNet™.
- A networked system with ACU16-C and NHB32-C units is capable of handling up to 64 channels of digital audio.
- Multicast and unicast modes can be used in combination to optimize bandwidth.
- Primary and secondary CobraNet™ ports are built-in, providing a redundant network for reliable operation.

SYSTEM EXAMPLE

NetworkAmp Manager

32 AES/EBU inputs

USB Port   AES/EBU Port

NHB32-C

SWITCH

NetworkAmp Manager

USB Port

CobraNet PRIMARY Port   RS-485 Port

ACU16-C

16-channel analog audio outputs

Up to 32 power amps

- - - - - CobraNet
——— Amp Control
——— Analog Audio
- - - - - AES/EBU
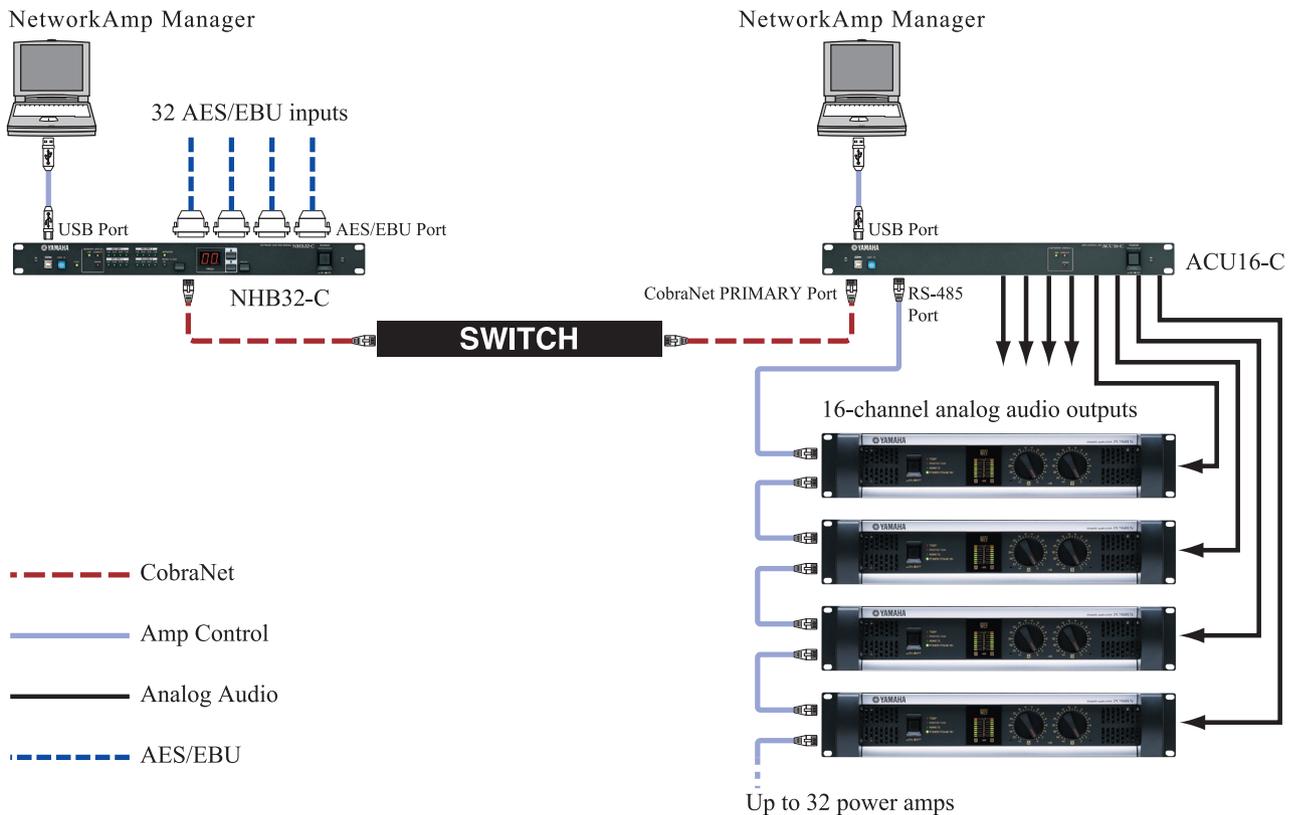
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GENERAL SPECIFICATIONS

Maximum unit count	8 units for a CobraNet network
Number of scene memories	99
Max. input channel count (from/to CobraNet)	32ch (48kHz/20bit); 28ch (48kHz/24bit)
Sampling frequency rate	48kHz
Signal delay	0.0417ms (CobraNet to AES/EBU)
Front panel	USB : PC USB connector UNIT ID : ID dial WORD CLOCK SELECT : from AES/EBU; NETWORK; WORD CLOCK IN PATCH SELECT POWER ON/OFF
Rear panel	AES/EBU 1-4 : 8ch/connector; Dsub-25pin x 4 WORDCLOCK : IN/OUT; BNC x 2 CobraNetTM : PRIMARY/SECONDARY; RJ45 x 2 COM : Dsub-9pin (male); for AD8HR HA control TO COMPUTER : Dsub-9pin (male) MIDI : IN/OUT; DIN5pin x 2
Power requirements	Japan: AC100V, 50/60Hz North America: AC110-120V, 50/60Hz Other Areas: AC220-240V, 50/60Hz
Power consumption	40W
Dimensions (W x H x D)	480 x 44 x 386mm (18 7/8" x 1 3/4" x 15 3/16"), 1U
Weight	5.0kg (11lbs)
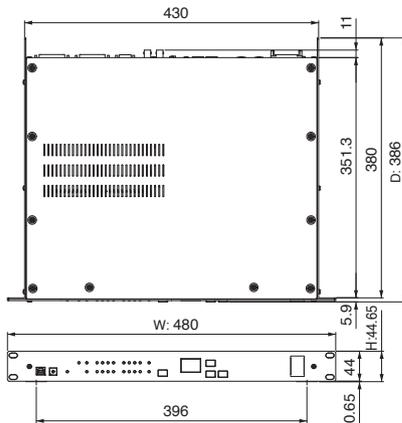
DIGITAL I/O SPECIFICATIONS

Terminal		Format	Level	Connector
AES/EBU 1-4	IN	AES/EBU	RS422	D-sub 25pin (Female)
	OUT			
CobraNet™*	PRIMARY	100Base-TX	100Base-TX	RJ-45
	SECONDARY			

* 32IN/320UT(20bit), 28IN/28OUT(24bit)

CONTROL I/O SPECIFICATIONS

Terminal		Format	Level	Connector
COM	-	-	RS422	D-Sub 9pin (Male)
TO COMPUTER	-	-	RS232C	D-Sub 9pin (Male)
USB	-	USB	-	B type USB Connector
MIDI	IN	MIDI	-	DIN Connector 5pin
	OUT	MIDI	-	DIN Connector 5pin
WORD CLOCK	IN	-	TTL/75Ω	BNC Connector
	OUT	-	TTL/75Ω	BNC Connector

DIMENSIONS

unit : mm