

Overview

This versatile DSP box provides 64 inputs and 64 outputs with a range of components that can be configured as required to support just about any audio system needs.



Rear Panel

Features

- Configurable as multiple audio processors for a wide range of applications – mixers, equalizers, compressors, crossovers, speaker processors, effects, feedback suppressors, wav file players, and much more.
- Easily configured and controlled via the DME Designer software application.
- 8 channels of built-in analog I/O with precision 24-bit 96-kHz A/D and D/A converters.
- High-performance analog preamplifiers that equal the sound and quality of those found in top-line Yamaha mixing consoles.
- Optimally-tuned 24-bit, 96-kHz digital processing.
- In addition to the eight built-in I/O channels, a rear-panel slot accommodates an optional MY card for an extra 16 I/O channels in a variety of analog and digital formats - for a total of 24 I/O channels.
- Network connectivity with optional MY16CII CobraNet™ card, MY16-ES64 EtherSound Card, DANTE-MY16-AUD/DANTE-MY16-AUD2 Dante Network card.
- Including Acoustic Echo Canceller Component (*MY4-AEC card is required to use this component).
- Seamless control Integration with compatible Yamaha digital mixing consoles.
- Up to 16 DME24N, DME64N and ICP1 Intelligent Control Panel units can be networked via their RJ45 connectors using CAT5 Ethernet cables.
- GPI, RS232C/RS422, USB, and MIDI Interfaces.
- Large LCD Display with Comprehensive Panel Controls.
- The DME24N and ICP1 Intelligent Control Panel, can display scene and function names in 5 languages: English, Japanese, French, German, and Spanish.

Specifications

General Specifications

Memory Bank	Configuration: 16 (depends on size of data) Scene: 999 (depends on size of data)
Sampling Frequency Rate	Internal : 44.1kHz, 48kHz, 88.2kHz, 96kHz External : Normal Rate: 39.69 – 50.88kHz, Double Rate: 79.39 – 101.76kHz
Signal Delay	0.85 msec (Input of MY8-AD96 to Output of MY8-DA96 @96kHz)
Dynamic Range	DA: 106dB
Crosstalk	-80dB
Power Requirements	AC100V-240V 50Hz/60Hz
Power Consumption	80W
Dimensions (W x H x D)	480mm x 145mm x 411.5mm (18.9" x 5.7" x 16.2")
Net Weight	9.5kg (20.9lbs)
Accessories	Owner's manual, DME Designer Installation Guide, AC power cord, AC plug clamp, 2x 16-pin Euroblock plug, 4x 8-pin Euroblock plug

Digital Input and Output Specifications

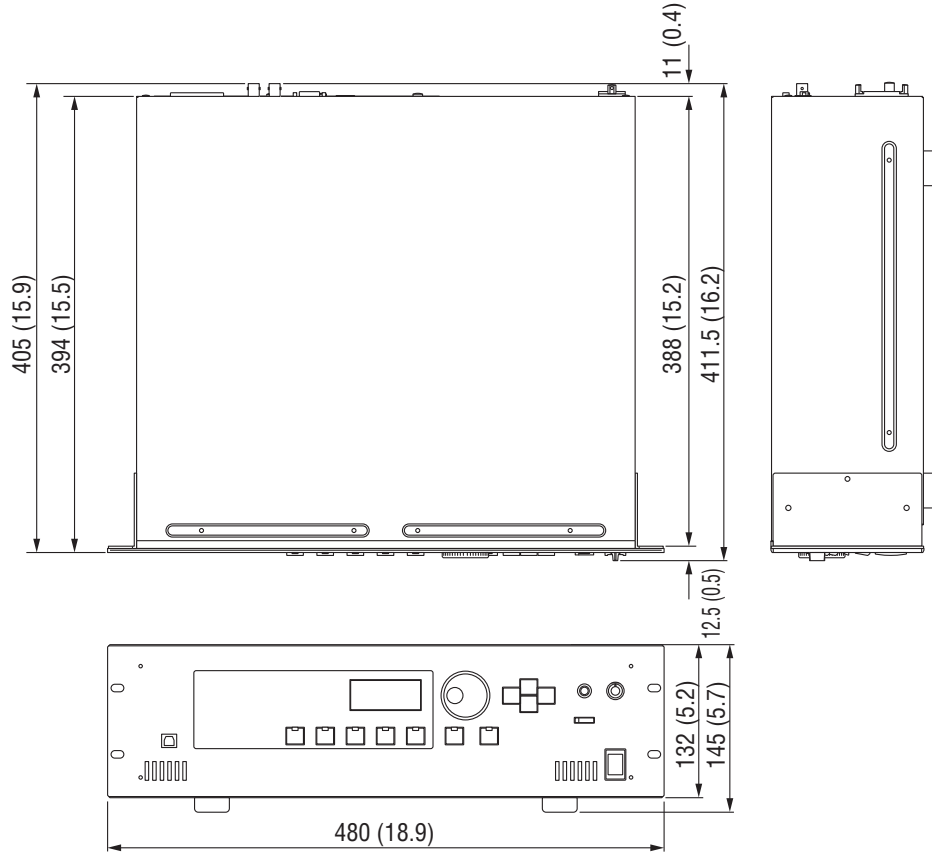
Terminal	Format	Level	IN/OUT	Connector
CASCADE IN (PM5D)	-	RS422	32 (IN)	D-sub Half Pitch Connector
CASCADE IN (DME64N)	-	RS422	32 (IN/OUT)	68Pin (female)
CASCADE OUT (PM5D)	-	RS422	32 (IN)	D-sub Half Pitch Connector
CASCADE OUT (DME64N)	-	RS422	32 (IN/OUT)	68Pin (female)

Control I/O Specifications

Terminal	Format	Level	Connector
USB	USB1.1	0V-3.3V	B type USB Connector
MIDI	IN	MIDI	DIN-5pin
	OUT	MIDI	DIN-5pin
	THRU	MIDI	DIN-5pin
WORD CLOCK	IN	-	TTL/75ohms (terminated)
	OUT	-	TTL/75ohms
GPI	IN	-	0V-5V
	OUT	-	TTL
	+V	-	5V
REMOTE	-	RS232C	D-sub 9pin (male)
	-	RS422	
ETHERNET	Ethernet	-	RJ45

Dimensions

Unit: mm (inch)



Options

- Intelligent Control Panel
- Wall-mountable Remote Control Panel
- Wall-mountable Remote Control Panel
- Wall-mountable Remote Control Panel

- ICP1
- CP4SF
- CP1SF
- CP4SW

Software

- DME Designer

Architectural and Engineering Specifications

The Yamaha DME64N Digital Mixing Engine shall provide digital inputs and outputs via Cascade I/O on RS422 connectors. Digital I/O shall allow sharing of digital audio with an additional digital mixing engine or digital mixing console. All inputs and outputs shall have 24-bit/44.1-kHz/48-kHz/96-kHz AD/DA converters and all internal processing shall be digital. 4 digital audio card slots shall be included to provide compatibility with a range of audio formats. The DME64N shall have USB, MIDI I/O/Thru, Word clock I/O, GPI I/O, RS232C and Ethernet ports to allow remote control. Software shall be provided for connecting and configuring DSP system components within each hardware unit and configuring remote control systems. Available system components shall include Ambient Noise Compensator, Audio Detector, Auto Gain Control, Crossover, Crossover Processor, Delay, Dynamics, EQ, Fader, Feedback Suppressor, Filter, Meter, Mixer, Pan, Room Combiner, Router, Source Selector, Speaker Processor, SPX (Effectors). Ethernet and USB communications shall be utilized for software control and configuration. Software shall run on a computer with a network card installed or USB connector, running Windows XP or above [Windows Vista/7/8/8.1/10 are supported]. After initial programming, processors may be controlled via dedicated wall mount CP series or ICP1 controllers, PC software, and 3rd party control systems. The NC rating of the processor shall be 15 and the heat dissipation shall be 68.8 kcal/h maximum. Dimensions 480 (W) x 145 (H) x 411.5mm (D). Weight shall be 9.5 kg. The product shall conform to the latest EU RoHS hazardous substances and WEEE directives.

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