

DME64N

Digital Mixing Engine



DME64N

Rear Panel



24 bit/96 kHz multi-purpose processor offers large-scale processing capability plus compatibility with a variety of formats via MY expansion cards.

- 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.
- Optimally-tuned 24-bit, 96-kHz digital processing.
- Cascade up to 8 DME64N units for 512 inputs and 512 outputs.
- Four rear-panel expansion slots accommodate MY cards for up to 64 channels of I/O in a variety of analog and digital formats.
- Network connectivity with optional MY16CII CobraNet™ card or MY16-ES64 EtherSound Card.
- Seamless control Integration with compatible Yamaha digital mixing consoles.
- Up to 16 DME64N, DME24N 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 DME64N and ICP1 Intelligent Control Panel, can display scene and function names in 5 languages: English, Japanese, French, German, and Spanish.

OPTIONS

REMOTE CONTROL PANELS

ICP1 Intelligent Control Panel

The most sophisticated of the DME series remotes, the ICP1 connects via Ethernet. Functions include scene recall and six user-defined keys at the top and bottom of the LCD screen, which can be assigned to DME parameters such as microphone and music source levels. Up to 4 sets of "pages" are available - giving up to 24 parameters. LCD display shows names and scenes and function keys in five languages - English, German, French, Spanish and Japanese.



CP4SF

Four switches and four faders control panel

Wall-mountable remote control panel for GPI control. Uses a standard (US-type) 3 gang wall box.



CP4SW

Four switches control panel

Wall-mountable remote control panel for GPI control. Uses a standard (US-type) 1 gang wall box.



CP1SF

One switch and one fader control panel

Wall-mountable remote control panel for GPI control. Uses a standard (US-type) 1 gang wall box.



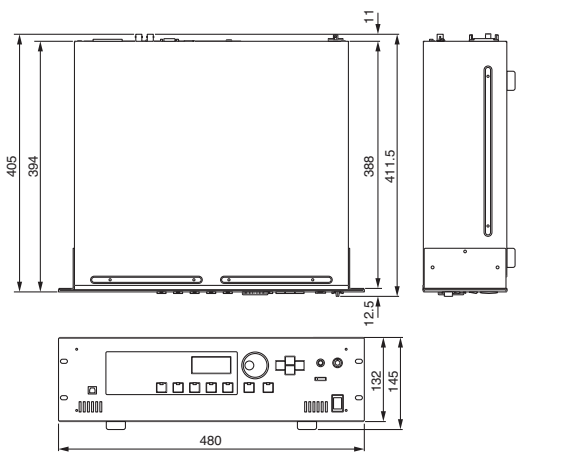
DME64N

GENERAL SPECIFICATIONS

Sampling frequency rate	Internal :44.1kHz,48kHz,88.2kHz,96kHz External :44.1kHz (-10%) to 48kHz (+6%), 88.2kHz (-10%) to 96kHz (+6%)
Signal delay	0.85msec (Input of MY8-AD96 to output of MY8-DA96)
Configurations	Max. 16
Scene	Max. 999
Maximum input channel count	64ch
Maximum output power channel count	64ch
Power requirements	100V-240V 50Hz/60Hz
Power consumption	80W
Dimensions (W x H x D)	480 x 145 x 411.5mm (18.9" x 5.7" x 16.2"), 3U
Weight	9.5kg (20.9lbs)

Total harmonic distortion is measured with a 18dB/Oct filter @80kHz.
Hum & noise level is measured with a 6dB/oct filter @12.7kHz; equivalent to 20kHz filter with infinite dB/Oct attenuation.

DIMENSIONS



DIGITAL INPUT AND OUTPUT SPECIFICATIONS

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

*0dBu = 0.775 Vrms

*Stereo Phone Jack = unbalanced (Tip = LEFT, Ring = RIGHT, Sleeve = GND)

CONTROL I/O SPECIFICATIONS

Terminal	Format	Level	Connector
USB	USB1.1	0V-3.3V	B type USB Connector
MIDI	IN	MIDI	—
	OUT	MIDI	—
	THRU	MIDI	—
WORD CLOCK	IN	—	TTL/75Ω (terminated)
	OUT	—	TTL/75Ω
GPI	IN	—	0V-5V
	OUT	—	TTL
	+V	—	5V
REMOTE	—	—	RS232C
	—	—	RS422
ETHERNET	Ethernet	—	RJ45

*16-GPI inputs and 16-GPI outputs

*Outputs: I_{max}/pin = 16mA

*Outputs: V_H = 2.5V(min.), V_L = 0.6V(max.)

COMPONENT LIST

Category	Component	
	Delay	Long, Short
	Dynamics	Gate, Ducking, Expander, Compressor, De-Esser, Limiter
	Filter	BPF, HPF, LPF, Notch
	EQ	PEQ, GEQ
	Fader	
	Pan	LR, LCR, 3-1, 5.1, 6.1
	Meter	
	Mixers	Simple Mixer Auto Mixer (II) Matrix Mixer Delay Matrix
	I/O functions	Cascade I/O MY card I/O
	Source	Oscillator Wav File Player
Routing functions	Source Selector Router	
Crossover	Crossover Crossover processor (II)	
Speaker Processor	Speaker processor	
Other functions	Room Combiner Feedback suppressor Ambient Noise Compensator Audio Detector Auto Gain Control Event Scheduler SPX	