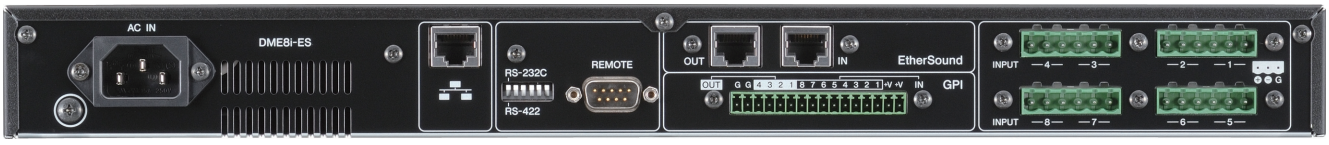
Audio I/O Distribution and DSP Expansion Units

DME8i-ES

DME8o-ES

DME4io-ES

DME8i-C Rear Panel



Extensive I/O and processing expansion for DME64N/DME24N systems and CobraNet™ or EtherSound™ networks.

- Vastly expand the capabilities and capacity of a DME-based sound system, or any other networked audio devices that use CobraNet™ or EtherSound™ protocol.*
- Controllable remote I/O plus powerful DSP processing capability allow distributed processing for unprecedented system design flexibility and power.
- Reduce system cabling costs while maximizing overall reliability.
- Also usable as stand-alone processors in smaller systems.
- Full 24-bit 96-kHz audio processing, plus the same highly-acclaimed analog circuitry used in the DME24N.
- Supplied DME Designer software application can be used to control, monitor, and create complete processing "configurations" in the same way as with the DME64N or DME24N.
- 8-in/4-out GPI terminals allows direct, easy connection to wall-mountable CP4SF control panels featuring four switches and four faders.

** CobraNet™ models have a "-C" suffix. EtherSound™ models have an "-ES" suffix.*

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.

DME8i-ES, DME8o-ES, and DME4io-ES

GENERAL SPECIFICATIONS

Model	DME8i-ES	DME8o-ES	DME4io-ES
Frequency response	0, -1.5, +0,5; 20-20kHz@48kHz fs, 20-40kHz@96kHz fs		
Total harmonic distortion	≤ 0.05%; +4dBu, GAIN=10dB		
Hum & noise	-128dBu (EIN) *		
Dynamic range	106dB		
Crosstalk	≤ -80dB		
Power consumption	40W		
Dimensions (W x H x D)	480 x 44 x 361mm (18.9" x 1.7" x 14.2"), 1U		
Weight	4.4kg (9.7lbs)		

*1. DME8i EIN is measured with DME8o for output conversion
*2. Total Harmonic Distortion is measured with a 18dB/octave filter @80kHz.
*3. Hum & Noise and dynamic range are measured with a 6dB/octave filter @12.7kHz; equivalent to a 20kHz filter with infinite dB/octave attenuation.
*4. Crosstalk is measured with a 18dB/octave filter @80kHz

ANALOG INPUT SPECIFICATIONS

Input termials	Gain	Actual Load Impedance	For Use With Nominal	Input Terminals		Connectors
				Nominal	Max. before Clip	
CH INPUT	-60dB	3kΩ	50-600Ω Mics* & 600Ω Lines	-60dBu	-40dBu	Euro-block connector
	+10dB			+10dBu	+30dBu	

*1. 0dBu=0.775 Vrms.
*2. All AD converters are 24-bit linear, 128-times oversampling (Fs=48kHz)/64-times oversampling (Fs=96kHz).
*3. +48V DC (Phantom power) is supplied to CH INPUT EUROBLOCK connectors via each individual software controlled switch.

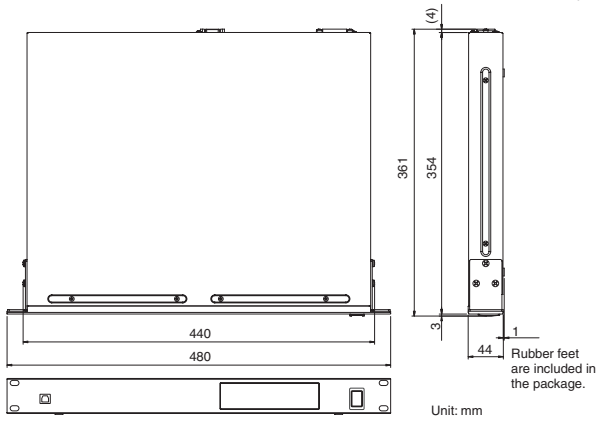
ANALOG OUTPUT SPECIFICATIONS

Output terminals	Impedance	For Use With Nominal	Output Level		Connectors
			Nominal	Max. before Clip	
CH OUTPUT	75Ω	600Ω	+4dBu	+24dBu	Euro-block connector

*1. 0dBu=0.775 Vrms.
*2. All DA converters are 24-bit linear, 128-times oversampling (Fs=48kHz)/64-times oversampling (Fs=96kHz).

DIMENSIONS

unit : mm



Unit: mm

CONTROL I/O SPECIFICATIONS

Terminals	Format	Latency	Level	Connector
EtherSound	EtherSound	Calculable: 125μ sec (SSI OUT to SSI IN)	100Base-TX	RJ-45 x2 (In/Out)

Terminals		Format	Level	Connector
GPI *	IN	-	0-5V	Eurobrock (3.5mm Pitch)
	OUT	-	TTL	
	+V	-	5V	
Ethernet		IEEE802.3	10Base-T/100Base-TX	RJ-45
USB		USB1.1	-	Type B
REMOTE		RS232C/RS422	RS232C/RS422	D-sub 9pin (male)

*1. Inputs: 8 channels, Outputs: 4 channels
Inputs: Not apply 2 wire Fader mode
Outputs: Imax/pin = 16mA
Outputs: VH = 2.5V(min.), VL = 0.6V(max.)

COMPONENT LIST

Category	Component	
	Delay	Long, Short
	Dynamics	Gate, Ducking, Expander, Compander, 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	Analog I/O	
	EtherSound I/O (16IN/16OUT)	
Source	Oscillator	
	Wav File Player	
Routing functions	Router	
Crossover	Crossover	
	Crossover processor (II)	
Speaker Processor	Speaker processor	
Other functions	Room Combiner	
	Ambient Noise Compensator	
	Audio Detector	
	Auto Gain Control	
	Event Scheduler	

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