

# DME64N

## Digital Mixing Engine



# DME64N



Rear Panel

\*MY8-AE96S, MY16-AE, MY16-AT and MY8-DA96 are options.

3U

AMX

CRESTRON

96 kHz

MIDI

MY16

**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

#### MY4-AEC

**Acoustic Echo Canceller Card**  
Provides 4 channels of acoustic echo cancellation.



#### 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.



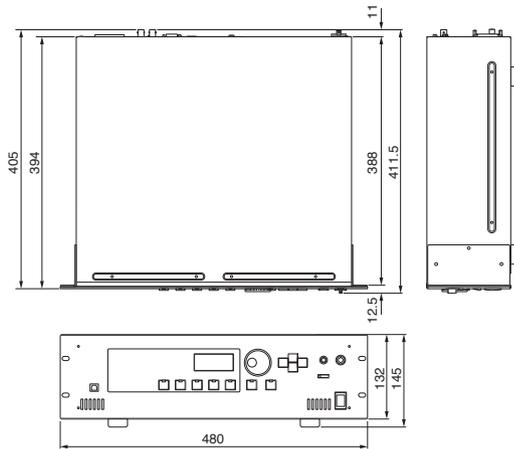
# DME64N

## GENERAL SPECIFICATIONS

|                                           |                                                                                                                 |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>Sampling frequency rate</b>            | Internal :44.1kHz,48kHz,88.2kHz,96kHz<br>External :44.1kHz (-10%) to 48kHz (+6%), 88.2kHz (-10%) to 96kHz (+6%) |
| <b>Signal delay</b>                       | 0.85msec (Input of MY8-AD96 to output of MY8-DA96)                                                              |
| <b>Configurations</b>                     | Max. 16                                                                                                         |
| <b>Scene</b>                              | Max. 999                                                                                                        |
| <b>Maximum input channel count</b>        | 64ch                                                                                                            |
| <b>Maximum output power channel count</b> | 64ch                                                                                                            |
| <b>Power requirements</b>                 | AC100V-240V 50Hz/60Hz                                                                                           |
| <b>Power consumption</b>                  | 80W                                                                                                             |
| <b>Dimensions (W x H x D)</b>             | 480 x 145 x 411.5mm (18.9" x 5.7" x 16.2"), 3U                                                                  |
| <b>Weight</b>                             | 9.5kg (20.9lbs)                                                                                                 |

## DIMENSIONS

unit : mm



## ANALOG OUTPUT SPECIFICATIONS

| Output terminal | Actual Source Impedance | For use with nominal | Output level |                  | Connector       |
|-----------------|-------------------------|----------------------|--------------|------------------|-----------------|
|                 |                         |                      | Nominal      | Max. before clip |                 |
| PHONES          | 15Ω                     | 8Ω                   | 75mW         | 150mW            | ST Phone Jack** |
|                 |                         | 40Ω                  | 65mW         | 150mW            |                 |

## DIGITAL INPUT SPECIFICATIONS

| Input terminal | Format      | Level | IN/OUT | Connector  |
|----------------|-------------|-------|--------|------------|
| CASCADE IN     | from PMSD   | —     | RS422  | 32(IN)     |
|                | from DME64N | —     | RS422  | 32(IN/OUT) |
| CASCADE OUT    | from PMSD   | —     | RS422  | 32(IN)     |
|                | from DME64N | —     | RS422  | 32(IN/OUT) |

## 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/75Ω (terminated)<br>BNC Connector |
|                | OUT      | —       | TTL/75Ω<br>BNC Connector              |
| GPI 16IN/16OUT | IN       | —       | 0V-5V<br>Euroblock                    |
|                | OUT      | —       | TTL<br>Euroblock                      |
|                | +V       | —       | 5V<br>Euroblock                       |
| REMOTE         | —        | RS232C  | D-Sub Connector 9P (Male)             |
|                | —        | RS422   |                                       |
| ETHERNET       | Ethernet | —       | RJ-45                                 |

## COMPONENT LIST

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