Overview

DME5 processors deliver advanced signal processing, enabling comprehensive control for building solutions tailored to customer requirements. Their free-configration architecture provides flexibility to design audio systems without limitations.

Features

- 8ch analog inputs and 4ch analog outputs
- 4ch flexible I/O
- 64ch Dante I/O at 48 kHz and 96 kHz
- 2ch I/O USB TO HOST at 48 kHz
- USB TO DEVICE supports for WAV/MP3 audio files
- Built-in processing solutions include - Dugan Automixer, Acoustic Echo Canceller, Delay Matrix
- Network remote control available via TCP/IP and OSC
- External Event function for control of 3rd party devices via TCP/UDP
- GPI euro block mini 16pin x 2
- Easy system design, setup and control via Provisionaire Design, ProVisionaire Control PLUS, and ProVisionaire Kiosk
- Control layer allows for programming complex series of custom logical sequences with MCP2
- Provide a touchscreen device “TCD10” that allows intuitive control Provisionaire Kiosk on the DME server via a browser

Specifications

General Specifications

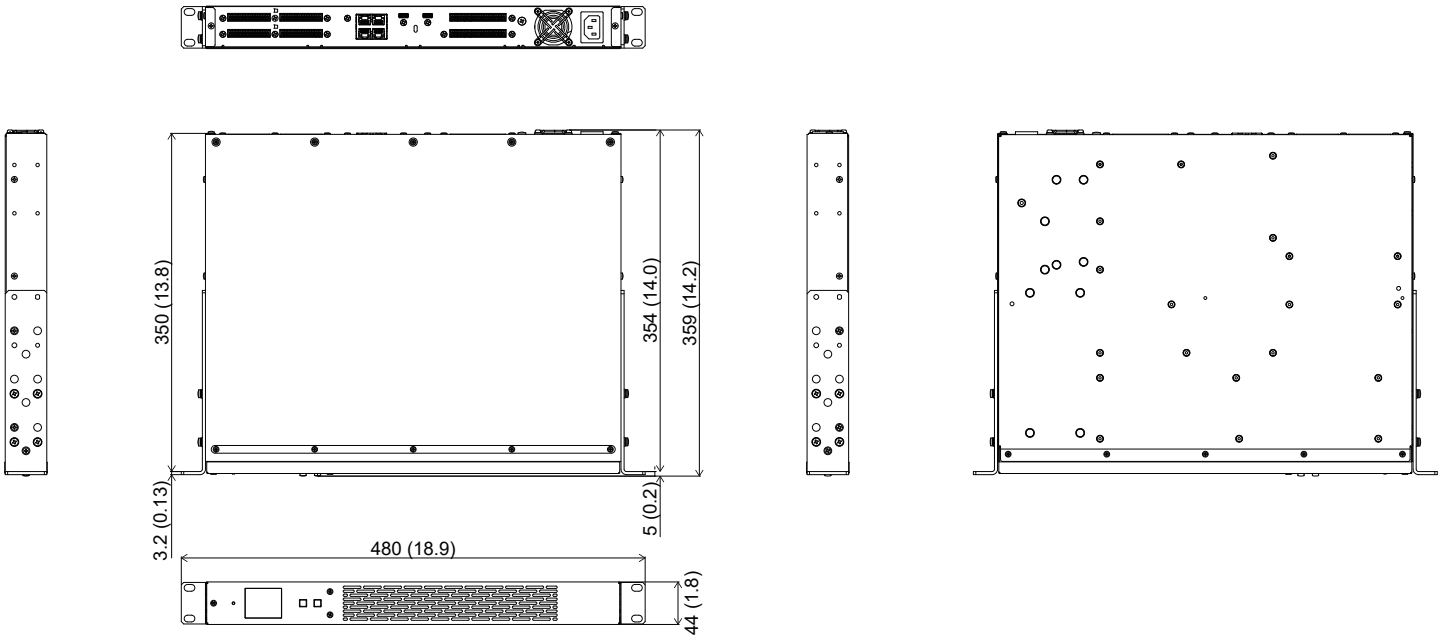
Internal processing		48 kHz / 96 kHz
Latency		Less than 3 ms, INPUT to OUTPUT @ FS = 96 kHz
Memory		Parameter sets: 1000, Snapshots: 10000
Cooling		Variable speed fan x 1, front to rear airflow
NC Value		NC = 20 to 25, NC = 25 to 30 @ Operation Temperature 40°C (Internal Specification) *1
Analog Inputs		8ch + FLEXIBLE I/O 4ch (max) *2
Analog Outputs		4ch + FLEXIBLE I/O 4ch (max) *2
Dante Interface	Channel count	64 IN, 64 OUT
	Sampling frequency	48 kHz / 96 kHz
	Bit depth	24 bit or 32 bit
USB to Host	Channel count	2 IN, 2 OUT
	Sampling frequency	48 kHz
USB to Device	Sampling Frequency, Bit Depth (WAV)	44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz 16 bit, 24 bit, 32 bit
	Sampling Frequency, Bit Rate (MP3)	32 kHz / 44.1 kHz / 48 kHz 32 kbps, 64 kbps, 128 kbps, 192 kbps, 320 kbps
I/O Connectors	Analog IO	Euroblock mini 12pin x 4 (3pin x 16)
	Dante	RJ-45 x 2 (PRIMARY / SECONDARY)
	NETWORK	RJ-45 x 1 (1000Base-T / 100Base-TX)
	USB TO HOST	USB Type-C (USB2.0)
	USB TO DEVICE	USB Type-C (USB2.0)
	GPI	Euro block mini 16 pin x 2
	AC	AC INLET x 1
Power requirements		100-240 V, 50/60 Hz
Power consumption		60 W
Heat dissipation		52 kcal/h
Operating temperature		0°C to 40°C
Storage temperature		-20°C to 60°C
Dimensions (W x H x D)		480 x 44 x 359 mm (1U) (18.9 x 1.8 x 14.2 in)
Weight		4.0 kg (8.8 lbs)
Finish		SECC (Front : Metallic Gray Munsell approximate value N5, Side : Black paint)
Accessories		Owner's Manual x 1, AC power cord x 1, Euro block plug mini 16pin x 2, Euro block plug mini 3 pin x 16, Cable hook (For USB Type-C) x 1, Cable Ties x 18
Separately sold items		MCP1, MCP2-US/EU, TCD10

*1: Measurement position: 1m from the front of the unit. Operation Temperature 25°C

*2: FLEXIBLE I/O can be set to INPUT or OUTPUT for each channel and used exclusively.

Dimensions

Unit: mm (inch)



Options

- MCP1
- MCP2-US/EU
- TCD10

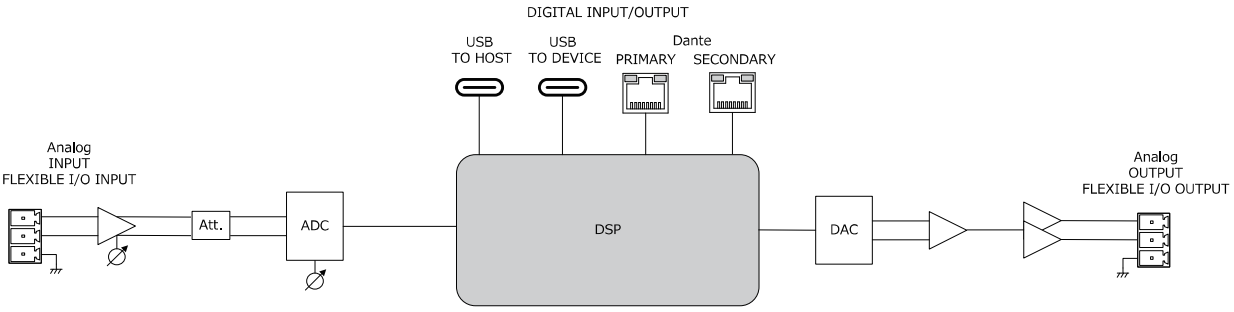
Software

- Provisionaire Design V3.0 or later
- Provisionaire Control PLUS
- Provisionaire Kiosk

Architectural and Engineering Specifications

Yamaha DME5 Signal Processor shall be a 19” rack mount, high-performance open-architecture digital signal processor for professional audio systems.
Internal system configurations and signal routing for DME5 shall be created by using the ProVisionaire Design software application, downloadable from the Yamaha website at no cost.
ProVisionaire Design shall allow DME5 audio and control components to be freely and flexibly laid out, and internal parameters to be adjusted to meet system requirements.
A large number of audio components for audio and commercial system design shall be supported, from essentials such as Matrix Mixer, EQ, Delay, Compressor, Gate, Automixer, Speech Privacy, Room Combiner, and more.
Utility and administrative functions shall be available via a basic control and display interface on the DME5 front panel. A Control Layer shall be supported for custom logic control.
Audio input and output shall be managed via a Dante network audio interface having primary and secondary RJ-45 connectors for redundancy or daisy-chain connection.
The Dante network audio interface shall be capable of handling up to 64 channels of audio input and output at 48kHz or 96kHz. The DME5 shall provide digital audio processing at 48kHz and 96kHz sampling rates.
A USB TO HOST connector (USB Type-C) shall allow the DME5 to be directly connected to a computer via a USB cable, functioning as a 2-in/2-out audio interface at 48kHz.
DME5 shall have 16 GPI inputs and 8 GPI outputs via Euroblock connectors, and an RJ-45 Ethernet port to allow remote control from computer software and third-party control systems.
All analog audio inputs and outputs shall be via Euroblock connectors, with 8 analog inputs, 4 analog outputs, and 4 flexible I/O channels that can be configured as either input or output.
A USB TO DEVICE connector (USB Type-C) shall allow the DME5 to be connected to an external USB memory device for convenient playback of stereo WAV or MP3 files.
TCP/IP and OSC control protocols shall be supported for external remote control via network. External third-party devices shall be controllable from DME5 using TCP/UDP via network.
DME5 shall be powered by a universal AC power supply (100–240V, 50/60Hz) and cooled by a variable speed fan with front-to-rear airflow, achieving an NC value of 20–25. Rated power consumption shall be 60 watts.
Dimensions shall be 480 x 44 x 359 mm. Weight shall be 4.0 kg.

Block Diagrams



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