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Datasheet — F48S Matrix DSP

Exceptional sound quality and user versatility

OVERVIEW

Inputs and outputs are software switched in channel pairs between analogue and AES/EBU. The F48S software flexibility ensures ease of system design.

Audio compression is specified on each input. High pass filter, 8 bands of parametric EQ, a 28 band graphic EQ, 3 bands of dynamic EQ and up to 1.3 seconds of delay are all part of the specification.

Routing to outputs can be configured to either mix-matrix mode, free-routing or several pre-configured routing options. Flexible channel linking enables quick and easy configuration of common loudspeaker systems. Extensive filter types are specified with 16 bands of parametric EQ and up to 1.3 seconds of delay. The limiter section features Predictive eXcursion Limiter (PXL) algorithm designed to offer precise loudspeaker power control with the lowest distortion.

Front panel control gives instant mute of input or output, editing of all parameters and recall of presets.

FATWARE Ethernet based control software for PC, Mac and iPad gives the ability to not only control all the devices on a network but also to store preset memories and pre - configure systems offline.

KEY FEATURES

- 4 Analogue Inputs, 8 Analogue Outputs
- AES Digital Inputs and Outputs with sample rate conversion from 24 to 96kHz
- **Input Processing Features:**
  - Soft Knee Compressor
  - 8 Parametric EQs
  - -24dB/Oct HPF
  - -28 Band Graphic EQ
  - -3 bands of Dynamic EQ
  - -Gain, Polarity, Delay (up to 1.3s)
- **Routing Matrix Modes:**
  Mix Matrix, Routing Matrix, Preset Configurations (2x4, 4x2, 1x8, 2x3+2)
- **Output Processing Features:**
  16 Parametric EQs
  Crossover Filters up to 48dB/Oct
  Gain, Polarity, Delay (up to 1.3s), PXL Limiters
  Remote control via 100Mbps Ethernet, USB Type B
  Up to 30 presets may be stored for offline recall

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TECHINCAL SPECIFICATIONS

Analogue Inputs - 4 Electronically Balanced
CMRR : >60dB @ 1kHz
Maximum Level: >20dBu
Input Impedance: 10kΩ Balanced

AES Inputs: - 2 x 2 Channel Transformer Balanced
AES Input Sample Rates: 48kHz to 96kHz
AES Input s/n Ratio: 140dB
Input Impedance: 110Ω

Analogue Outputs - 8 Electronically Balanced
Maximum Level L >20dBu
Source Impedance: <60Ω

AES Outputs: - 4 x 2 Channel Transformer Balanced
Sample Rate: 96kHz
Source Impedance: 110Ω
Frequency Response (20Hz to 20kHz) : +/-0.4dB
Dynamic Range : >115dB unweighted (in to out analogue)
THD + N (-10dB @ 1kHz): 0.0013%
Latency: 1.278ms (in to out, analogue, 96kHz)

Auto sensing Power: 90-250VAC, 50-60Hz, <40W
Dimensions: 44 x 213 x 482mm (1.75 x 8.4 x 19 inches)
Weight: 3.2kg Net, 3.9kg Shipping

FFA has a policy of continued product improvement and accordingly reserves the right to change features and specifications without notice.

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