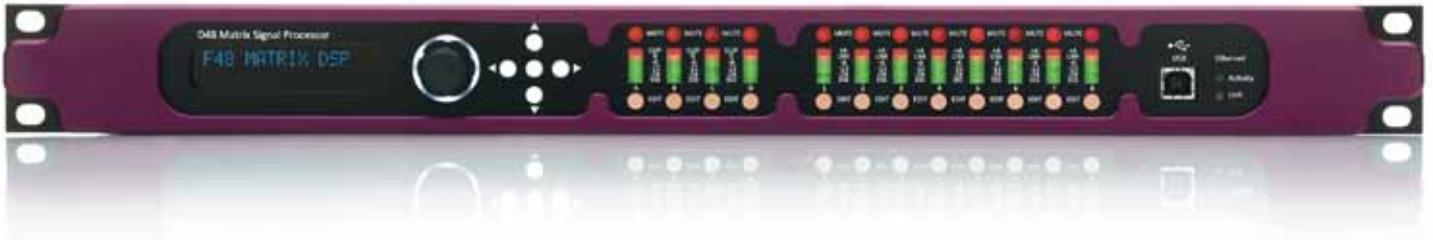




Mac . Windows . iPad

## 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: 10k $\Omega$  Balanced

**AES Inputs:** - 2 x 2 Channel Transformer Balanced

AES Input Sample Rates: 48kHz to 96kHz

AES Input s/n Ratio: 140dB

Input Impedance: 110 $\Omega$

**Analogue Outputs** - 8 Electronically Balanced

Maximum Level L >20dBu

Source Impedance: <60 $\Omega$

**AES Outputs:** - 4 x 2 Channel Transformer Balanced

Sample Rate: 96kHz

Source Impedance: 110 $\Omega$

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.