

SM748



The SM748 is a 4 in, 8 out digital crossover. Great attention has been paid to capturing the signal as faithfully as possible and reproducing it accurately using the latest digital signal processing. The SM748 uses high-performance 24-bit converters on the inputs and outputs, running at 96kHz to give a bandwidth of over 30kHz and a dynamic range in excess of 116dB. The SM748 features up to 9 parametric sections on each band. Parametric sections can be reconfigured to many alternate filter behaviours, including an array of filters inclusive of phase adjustment in 2 degree steps. Each output also features a combination of limiters: a limiter designed to protect individual drivers from over-excitation/over-driving and an additional, look-ahead "D-Max" limiter for added safety. The SM748 is able to seamlessly switch between analogue and digital feeds, both for inputs and outputs.



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Industry standard AES/EBU interfaces are built-in which allow the units to work with both digital inputs and at the same time feed digital output streams. Sample rate converters are included on the inputs, allowing the SM748 to accept streams from 32kHz up to 192kHz. (Output sample rate is fixed at 96kHz.)

Specifications

Size (WxHxD) (1U)	482(w) x 44(h) x 300(d) mm
Weight	3.3 kgs
Inputs 2/4 electronically balanced	Impedance: > 10k ohms MRR : > 65dB 50Hz - 10kHz
Outputs 4/6/8 electronically balanced	Source Imp: < 60 ohms Min. Load: 600 ohm Max. Level: +20dBm into 600 ohm
Frequency response	+1/2dB 20Hz - 20kHz -3dB @ 32kHz
Dyn. range	> 116dB 20Hz - 20k unwt'd
Distortion	< 0.2% @ 1kHz, +18dBm Maximum delay: 650 mS Min step size: 0.3µS
Input gain	+6dB to -40dB in 0.1dB steps
Output gain	+15dB to -40dB in 0.1dB steps and mute
Parametric equalisation	8 per Input / 9 Sections per Output Filter gain: +15dB to -30dB in 0.1dB steps Freq. range: 19.7Hz - 32kHz, 136 octave steps Filter Q / BW: 0.4 to 128 / 2.5 to 0.008 Sections switched to shelving response) Low frequency: 19.2Hz - 1kHz High frequency: 1kHz - 32kHz Shelf gains: ±15dB in 0.1dB steps
High and Lowpass filters	1 of each per output Frequency range HPF: 10Hz - 16kHz 1/36 octave steps Frequency range LPF: 35Hz - 22kHz 1/36 octave steps Response: 1st Order 6dB/Oct Bessel/Butterworth/Linkwitz-Riley 12-24-48dB/Oct Bessel/Butterworth 18dB/Oct
Limiters	Program Limiter: Threshold: +22dBu to -10dBu Attack time: 0.3 to 90 milliseconds Release time: 2/4/8/16/32 x Attack time D-Max" Limiter: Attack time: -60µS Release time: Slow/Medium/Fast
Display	2 x 24 Character LCD
Input meter	2 x 6 point, -24dB to digital clip
Output meter	8 x 6 point, -24dB to +4dB into limit
Connectors	Inputs: 3 pin female XLR Outputs: 3 pin male XLR External: 9 pin DEE connector (RS232) RS485: 3 pin male XLR (out) 3 pin male XLR (in) Power: 3 pin IEC
Power requirements	60 to 250v ±15% @ 50/60Hz



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