Processors

S8 DSP



L'S8 DSP è un concentrato di tecnologia al servizio della migliore qualità audio in un box anti corrosione in metallo e materiali selezionati. Le dimensioni ultra compatte lo rendono **la soluzione perfetta per ogni progetto** di miglioramento audio per **auto, moto e barche!** L'S8 DSP elabora il segnale audio con una risoluzione di **96 kHz / 24 bit** e ha ottenuto la certificazione **Hi-Res** dalla JAS (Consorzio Audio Giapponese), un riconoscimento che certifica **l'altissimo livello dalle performance audio.** Il potente DSP a 32 bit gestisce i **6 canali di ingresso analogici ad alto e basso livello, un ingresso coassiale digitale, e 8 canali di uscita**, offrendo allo specialista la massima libertà di configurazione. L'ingresso coassiale SPDIF è l'ideale per la **connessione digitale con un lettore Hi-Res, una soluzione che permette la massima qualità d'ascolto.**

GENERAL SPECIFICATIONS

Nominal Power supply voltage / fuse:	7 ÷ 20 VDC / 1A
Pulse operating voltage:	5 ÷ 24 VDC
Idling current:	0.34 A
OFF current (ART= OFF):	<80 uA
OFF current (ART= ON):	<80 uA
Remote IN	6 ÷ 20 VDC (10 mA)
Remote OUT	4 ÷ 20 VDC (150 mA)
ART - Automatic Remote Turn on/off from BTL speaker outputs (selectable):	1.5 ÷ 7 VDC

INPUT STAGE

Analog low level Inputs	6 ch. (Differential input) (Molex microfit to RCAs)
Analog high level Inputs	6 ch. (Differential input) (Molex microfit to tripped ends) + USS (Universal Speakers Simulator)
Digital inputs	Yes (Coaxial SPDIF; up to 24bit 96KHz) (Molex microfit to RCA)
Input sensitivity (low level)	0.8V – 6V RMS
Input sensitivity (high level)	2.5V – 21V RMS
Analog inputs management	Audio input routing matrix type
Analog inputs eq	7 bands paragraphic for each input channel
ART	Automatic Remote Turn-On/Off with Speaker-In

OUTPUT STAGE

Analog outputs (rca)	8 channels
Max output level (rms) @ 0.05% THD	4V

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Analog outputs management	The DSP controls each output channel: gain, crossover, EQ, delay, polarity
Bandwidth	10Hz – 40KHz (+/-3db)
Signal to noise ratio (A weighted)	105dBA (Analog Input) 112dBA (Digital Input)
THD+N (@ 1Vrms out, @ 1Khz)	<0.005%
Crosstalk (channel separation) @ 1KHz	>95dBA

DIGITAL SIGNAL PROCESSOR

Sample rate	96KHz
Bit depth	24
Output equalizer	15 bands per channel w/ adjustable Q and Frequency
Equalizer resolution	1/10th dB per step +12dB / -12dB
Time alignment (distance)	0 ÷ 468.4 cm / 0 ÷ 184.4 inches
Time alignment (time)	0 ÷ 13.5ms
Time alignment (step)	0,08 ms; 2,8 cm / 1.1 inch
Time alignment (fine set)	0,02 ms; 0,7 cm / 0.27 inch
Crossovers	AP/HP/LP/BP all channels
Crossover type	Butterworth, Linkwitz-Riley, Bessel (All Channels)
Crossover slope	From 6dB/oct. until 30dB/oct. (6dB step)
Crossover steps	120 steps 20Hz-20KHz
Mute function	Each channel individually, or all channels.
Presets	4 presets
Presets selection	2 specific wires to control the 4 presets selection by extarnal switches.
Input selection by wire	One specific wire to select the desired input between Analog or Digital.
Audio signal compressor on output stage	Yes (enable/disable)
DSP chipset	Analog Device: ADAU1451
DSP management by bt app (iOS/ Android)	1. CONFIGURATOR mode Mainly it'll allow the DSP tuning. You can manage every DSP functon through your smartphone/ tablet/PC/MAC. 2. DRC mode The BT device becomes a remote control by using the dedicated app with a simple graphical user interface. Manage volume level, SUB level, select different setup files, upload a new setup file.
Setup file sharing via bt	Upload a setup file via BT through the BT APP when in "Configurator" or "DRC" mode.
DSP management by pc / mac / ios / android	Microsoft Windows (32/64 bit): Windows 10 (USB and BT BLE) Windows 11 (USB and BT BLE) Mac Os: 10.13 Hight Sierra or later (USB and BT BLE)

PHYSICAL SPECS

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