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bit One

Signal Interface Processor

bit One.1 Version

Power Supply

Voltage	11 ÷ 15 VDC
Idling current	0.45 A
Switched off without DRC	< 0.5 mA
Switched off with DRC	< 1.8 mA
Remote IN voltage	7 ÷ 15 VDC (1.3 mA)
Remote OUT voltage	12 VDC (130 mA)

Signal Stage

Distortion - THD @ 1 kHz, 1 V RMS Output	t 0.002 %
Bandwidth	4.5 ÷ 21k Hz
S/N Ratio @ A weighted	102 dBA
Channel Separation (@1 kHz)	77 dB
Input sensitivity (Low Level)	0.3 ÷ 5 V RMS
Input sensitivity (High Level)	1.2 ÷ 20 V RMS
Max Output Levels	4 V RMS
Input impedance (Low Level)	20 kΩ
Input impedance (High Level)	5 kΩ

Input Stage

Low Level (Pre In)	Ch 1 ÷ Ch 6, AUX1 L/R, AUX2 L/R
High Level (Speaker In)	Ch 1 ÷ Ch 8, Phone In
Coaxial and Optical	S/PDIF Max 48kHz / 24 bit, PCM

Output

Analog Pre Out	Ch 1 ÷ Ch 8
Digital Out 48kHz - 24 bit AD Link	Ch 1 ÷ Ch 8

Crossover

Туре	12 / 24 / 36 / 48 dB Linkwitz 6 / 12 / 18 / 24 / 30 / 36 / 42 / 48 dB Butterworth	
Mode	Full / Hi-Pass / Low Pass / Band Pass	
Equal	zer	
Type Gain	31 Band, ISO 1/3 Oct, 20 Hz ÷ 20k Hz ±12 dB	
Time Alignment		
Delay	0 ÷ 22 ms in 0,02 ms steps (748 cm / 294.5 in.)	
Size		
WxHx	D (mm / in.) 225 x 32,3 x 150 / 8.85 x 1.27 x 5.90	

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nm / in.)	225 x 32,3 x 150 / 8.85 x 1.27 x 5.90	Bit







Audio DSP and converters

32-BIT floating point Analog Devices Sharc (Clock speed: 266MHz) Digital Signal Processing chip and Wolfson A/D D/A converters working in PCM at 48kHz with 24 Bit resolution. Tuning functions can be heard in real time due to processing speed.

Audio Inputs

8 independent high-level channels (with automatic summing capability) or 6 independent

- analog low-level channels; 2 analog low-level stereo auxiliary inputs;
- 1 optical digital input;

electric coaxial digital input;

1 high-level momentary audio interrupt input (with Mute IN) for use with mobile phone or navigation systems.

Audio Outputs

8 independent low-level analog channels featuring adjustable level and 1 AD Link output (8 independent digital audio channels through a single CAT 5.S LAN cable for use with AD Link provided amplifiers).

Digital Control System

1 USB /B (2.0) connector for PC connection;

2 AC Link control bus connectors for DRC and AC Link amplifiers.

Configuration

Guided procedure that, thanks to a wide range of set names, provides the ability to assign each component to the bit One connections and automatically coordinate their functioning. Turn-on Controls

ART automatic remote turn on/off circuit:

Through the car ignition key with memory function;

Through the DRC; Automatically through the hands-free phone kit.

In/Out Volume

Input sensitivity automatically adjusted for the main inputs (with supplied Test CD and DVD); Manual input sensitivity adjustment for auxiliary inputs;

Independent level control for each output channel for system fine tuning (-40 ÷ 0 dB).

Dynamic Equalizer

System automatically self-adjusts through an equalization between low and high listening levels that can be set by the user and controlled by the DRC.

De-equalization and calibration

Automatic de-equalization of signal fed into the high-level inputs (with supplied Test CD or DVD) and levels calibration.

Equalizers

One 31-band graphic equalizer (1/3Oct.; ±12dB) for each one of the 4 auxiliary input; One 31-band graphic equalizer (1/3 Oct.; ±12dB) for each one of the 8 output channels. Crossover Filter

Filter typology: Selectable; Hi-pass, Lo-pass, Bandpass, Full Range;

Cut-off frequency: 70 steps available from 10 Hz to 20 kHz; Cut-off slope: Selectable; 6 to 48 dB/Oct.;

Alignments: Selectable; Linkwitz or Butterworth;

- Mute: Selectable for each output (On/Off);
- Phase: Selectable for each output (0°/180°).

Signal channels reconstruction

It can reconstruct a stereo signal from a multi-channel signal. In addition it can reconstruct a centre channel and subwoofer channels from a stereo input alone.

Time Alignment

Guided procedure for the speaker distance data entry with an automated calculation of proper delay times for each channel for accurate time alignment set-up. System also provides for manual fine tuning of delay (0 ÷ 22 ms max).

Auto Restart

Automatic turn Off/On, if the DSP locks up.

DRC Master Volume control, Subwoofer Volume control, Balance control, Fader control, Input selection, Memory selection, Dynamic Equalizer On/Off, Adjustable display brightness, Access to digital features of Audison TH amps if connected.

emory presets separately managed and recalled by the DRC Remote Control.

One software

Windows (Win 2000, XP, Vista, 7) based software with "Standard" and "Expert" operating modes; Screen resolution: 1024 x 768 px min.

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