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H8 DSP DIGITAL INTERFACE PROCESSOR



NERT2

POWER SUPPLY

POWER SUPPLY					
	erating power supply voltage			10.8 ÷ 14.4 VDC	
Power supply				7.5 ÷ 15 VDC	
Idling current				0,4 A	
Switched off without DRC				2,5 mA	
Switched off with DRC				4 mA	
Remote IN voltage				6,5 ÷ 15 VDC (1,3 mA)	
Remote OUT voltage				12 VDC (130 mA)	
SIGNAL STAGE					
	11/ DM			0,005%	
Distortion - THD @ 1 kHz, 1V RMS Output Bandwith @ -3 dB			•	10 ÷ 22k Hz	
S/N Ratio @ A weighted				IU - ZZK IIZ	
Digital input				105 dBA	
Master Input				95 dBA	
AUX Input				96 dBA	
Channel Separation @ 1 kHz					
				85 dB 2 ÷ 15 V RMS	
Input sensitivity (Speaker In)					
Input sensitivity (AUX In)				0,6 ÷ 5 V RMS	
Input impedance (Speaker In)				2,2 kΩ	
Input impedance (AUX)				15 kΩ	
Max Output Level (RMS) @ 0.1% THD				4 V RMS	
INPUT STAGE					
High Level (Speaker)				FL - FR - RL - RR	
Low Level (Pre)				AUX IN	
Digital Optical IN (S/PDIF max 96 kHz/24			bit)	OPTICAL IN	
OUTPUT STAGE					
Low Level Pre (default) FRONT SUB, CE			TW L/R, FRONT WF L/R REAR L/R,		
CONNECTIONS		JUD, CLI	NIL	Π	
From / To Personal Computer 1 x USB			/ R		
			ontrols and Memory / Inputs selection		
			n / Aux wire control + 12V / GND enable		
				B wire control $+ 12V$ / GND enable	
CROSSOVER N.8 (one for	oach oi				
Filter Type				.ow Pass / Band Pass	
	Linkwitz @ 12 / 24 dB				
Filter mode and slope	Butterworth @ 6 / 12 / 18 / 24 dB				
Crossover frequency					
Phase control				N TIZ	
	0.10	50			
EQUALIZER					
On Hi-Levels input (Speaker In)			Automatic De-Equalization On		
Outpute			N.8 Graphic: ±12 dB @ 31 Band		
Outputs			ISO 1/3 Oct. 20 ÷ 20k Hz		
TIME ALIGNMENT					
Distance			0 ÷ 510 cm / 0 ÷ 200.8 inch		
Delay			0 ÷ 15 ms		
Step			0.08 ms; 2,8 cm / 1.1 inch		
Fine set			0.02 ms; 0,7 cm / 0.27 inch		
GENERAL REQUIREMENT	s				
				USB 1.1 / 2.0 / 3.0 Compatible	
Software/PC requirements: Graphic card min. resolution:			Microsoft Windows (32/64 bit):		
			XP, Vista, Windows 7, Windows 8,		
			Windows 10		
			800 x 600		
	erature	range:	0 1	C to 55 °C (32°F to 131°F)	
SIZE					
W (Width) x H (Height) x D (Depth) mm/inch			ch	191 x 34 x 131 / 7.51" x 1.33" x 4.76"	
Weight kg/lb				0,6 / 1.322	

All Specifications Subject to Change Without Notice_20.A

AUDIO DSP AND CONVERTERS

32 bit Cirrus Logic (Clock speed: 147 MHz) Digital Signal Processing chip and A/D D/A converters working in PCM at 48 kHz with 24 bit resolution. The processor speed allows the user to hear and verify in real time the changes applied during the tuning. AUDIO INPUTS

4 independent high-level channels with built-in USS technology (Universal Speakers Simulator) and automatic summing capability.

1 analog low-level stereo auxiliary input.

1 optical digital input. **AUDIO OUTPUTS**

8 independent analog PRE channels featuring adjustable level. CONTROL CONNECTIONS

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

Optical In / Aux Wire control +12V/GND.

Wire control Memory A/B.

1 Connector for DRC HE.

CONFIGURATION

Guided procedure which, thanks to a wide range of default settings, provides the ability to assign each component to the H8 DSP connections and automatically coordinate their functions

TURN-ON CONTROLS

ART™, Automatic Remote Turn on/off, selectable from Hi-Level Front L.

The ART™ function can be enabled through an external switch, the Remote IN, the vehicle ignition key with memory function, the DRC HE (optional).

IN/Out VOLUME

Manual input sensitivity adjustment for the Master Hi-Level inputs (with supplied Test CD). Manual input sensitivity adjustment for auxiliary inputs.

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

Automatic de-equalization of the high-level inputs signal (with supplied Test CD) if necessary. It can also be performed without the PC.

EQUALIZERS

31-band graphic equalizer (1/3 Oct.; ±12dB) for each analog and digital output channel. **CROSSOVER FILTER**

Filter typology: Hi-pass, Lo-pass, Full Range or Band-pass with independent selectable cut-off slope.

Cut-off frequency: 68 steps available from 20 Hz to 20 kHz.

Cut-off slope: 6 to 24 dB/Oct.

Filter alignment: Linkwitz or Butterworth.

Mute function: selectable for each output (on/off).

Phase: selectable for each output (0° / 180°). SIGNAL CHANNELS RECONSTRUCTION

It can reconstruct a stereo output signal from a multi-channel input signal. In addition it can also reconstruct rear, centre and subwoofer output channels from a stereo input.

TIME ALIGNMENT

Guided procedure for the speaker distance data entry with an automated calculation (distance to time) for each channel accurate time delays.

"Fine-tuning" can also be manually applied (0.02 ms fine set).

REMOTE CONTROL

Master Volume, Subwoofer Volume, Balance and Fader controls, Input selection, Memory selection.

MEMORY

2 presets separately managed and recalled via DRC HE and wire control. PC SOFTWARE

Microsoft Windows (XP, Vista and 7,8,10) based software with "Standard" and "Expert" operating modes; screen resolution: 1024 x 600 px min.

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