

ACE99S

Programmable 99 Preset Audio Effect Module

Release December 2018

Features

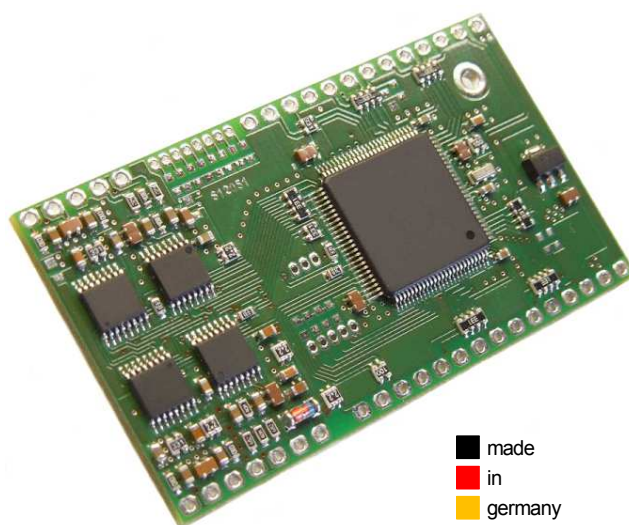
Full Editable Effect-Sound and Preset-List Creation by USB & PC-Software
Powerful and Precision 32-Bit DSP with Floating-Point Process Arithmetic
Fitted with 32 Precisely Modeled Standard- and Combined-Effect Types
Various Preset Selection Methods with Immediate Auto-Store Function
Audio-Input and Audio-Output by On-Board 24-Bit Stereo ADC & DAC
3-Wire Serial-Data Interface to 8-Bit SR's for 7-Segment LED-Display
Effect-Sound Mute Input for Momentary- or Push/Push-Switch Types
3 Different Preset-Lists (16, 32, 99) Selectable by On-Board Jumper
Clock-Sync & Power-Up Trigger Outputs for External Circuit Control
6 Different Operating Applications Selectable by On-Board Jumper
Click-Free Automatic Audio-Mute Function during Preset Change
Audio-Signal Free Control Inputs for FX-Volume & Parameter
Excellent Signal to Noise Distance @ +15 dBu Headroom
Firmware Update Possibility via USB & PC Software
Audio-Signal Overload Indicator Output (Clip-LED)
Special Adaptions and Extensions on Request

Effect Program & Parameter Selection Methods

Rotary Quadrature Encoder
Gray- or Binary-Coded Rotary Switches
Momentary- & Push/Push-Switches
Potentiometer-Control for Presets & FX-Volume
Potentiometer-Control for Parameters (Pedal)

Effect Program Indication Method

Numeric 2-Digit 7-Segment LED-Display



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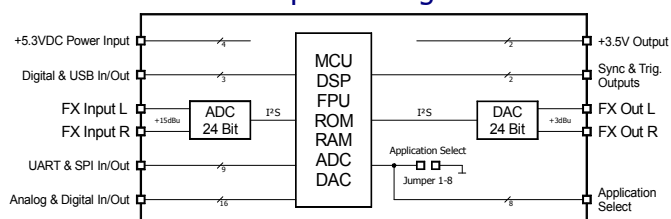
Technical Data

DSP Arithmetic	: 32-Bit Floating-Point
Audio AD/DA Conversion	: 24/24-Bit
S/N A-Weighted	: 116dB @ 1KHz
Dynamic Range	: 116dB
Frequency Response	: 50Hz - 15KHz @ 32.0K fs
Cross-Talk Attenuation	: 106dB @ 1KHz (0dBu In/Out)
Audio Input Impedance	: 5.0 Kohm
Audio Input Level max.	: +15 dBu (12.3Vpp)
Audio Output Level max.	: +15 dBu (with 12dB buffer)
Power Supply Analog	: min. +5.2VDC / max. +5.4VDC
Power Supply Digital	: min. +5.2VDC / max. +9.0VDC
Power Consumption	: 85 mA (without Display)
Module Dimension	: 59 x 33 x 3.3 mm

Applications

Guitar- / Keyboard-Amplifiers / Combos
Mixing- and Powered Mixing- Consoles
Mixing Consoles Single Input Insertion
Karaoke Equipment
Stand Alone Stereo Effect Units

Simplified Diagram



Contact Information

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Factory Default Effect-Sound Preset Listing

						16 Presets Selection			
						32 Presets Selection			
						99 Presets Selection			
16	32	99	PRESETS	Timing	16	32	99	PRESETS	Timing
		1	Hall	2.0 sec			50	Echo 50% FB	100 ms
	1	2		2.5 sec	9	12	51		150 ms
1		3		3.0 sec			52		175 ms
		4		3.5 sec	10	13	53		200 ms
	2	5		4.0 sec			54		225 ms
2		6		5.0 sec		14	55		250 ms
	3	7		6.0 sec	11	15	56		300 ms
		8		8.0 sec			57		400 ms
		9		10.0 sec	12	16	58		500 ms
3	4	10	Room	1.0 sec			59	Echo Left-Right-Pan 40% FB	700 ms
		11		1.5 sec			60		150 ms
4	5	12		2.0 sec	17	61	200 ms		
		13	3.0 sec	18	62	300 ms			
5	6	14	Plate	2.0 sec		63	500 ms		
		15		3.0 sec		64	700 ms		
6	7	16	Spring	4.0 sec		65	Echo 3-Tap-Pan 40% FB	150 ms	
		17		2.0 sec	19	66		200 ms	
		18		3.0 sec	20	67		300 ms	
		19	4.0 sec		68	500 ms			
		20	Voice Doubler	75 ms		69	700 ms		
		21		100 ms		70	Chorus	slow	
		22		150 ms		71	Chorus & Reverb		
		23	Ambient	300 ms		72	Chorus	medium	
		24		400 ms	13	25	73		Chorus & Reverb
8		25		500 ms		26	74		Chorus & Echo
		26	Chamber	0.75 sec		75	Chorus	fast	
		27		1.00 sec	14	27	76		Chorus & Reverb
		28		1.25 sec		28	77		Chorus & Echo
		29		1.50 sec		78	Flanger	slow	
		30	Gated Reverb	100 ms		79	Flanger & Reverb	medium	
21		31		125 ms		80	Flanger		
		32		150 ms	15	29	81		Flanger & Reverb
22		33		200 ms		30	82	Flanger & Echo	
		34	Reverse Reverb	300 ms		83	Flanger	fast	
		35		100 ms	16	31	84		Flanger & Reverb
		36		125 ms		32	85		Flanger & Echo
23		37		150 ms		86	Tremolo	slow	
		38	Echo & Reverb	200 ms		87	Tremolo & Reverb	medium	
24		39		300 ms		88	Tremolo		
		40		100 ms		89	Tremolo & Reverb		
		41		150 ms		90	Tremolo & Echo		
7	9	42	Echo & Reverb	175 ms		91	Tremolo	fast	
		43		200 ms		92	Tremolo & Reverb		
		44		225 ms		93	Wah Wah		slow
	10	45		250 ms		94	Wah Wah & Reverb	medium	
8		46		300 ms		95	Wah Wah		
		47		350 ms		96	Wah Wah & Reverb		
		48		400 ms		97	Wah Wah & Echo		
		49		500 ms		98	Wah Wah	fast	
					99	Wah Wah & Reverb			

Notes:

The determining of 16, 32 or 99 total effect sound presets is selectable by ACE99S on-board jumper setting.

The above defined listing represents the factory default preset arrangement with their associated parameter adjustments.

The arrangement and parameter adjustments can be edited and stored to the ACE99S memory with the use of our PC Software "ACE Creator One".