

ACE99D

Programmable 99+99 Preset Double-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
- 2 Independent and Concurrently Usable Effect-Sound Engines (FX1, FX2)
- Fitted with 33 Precisely Modeled Standart & Combined Effects per Engine
- Various, Independent Preset Selection Methods with Auto-Store Function
- 2 Effect-Sound Mute Inputs for Momentary- or Push/Push-Switch Types
- 3-Wire Serial-Data Interface to 8-Bit SR's for 7-Segment LED-Displays
- 2 Audio-In and 4 Audio-Out by On-Board 24-Bit Stereo ADC & DAC's
- Clock-Sync & Power-Up Trigger Outputs for External Circuit Control
- Limiting of Selectable Presets to 2x32 or 2x16 by On-Board Jumper
- 6 Different Operating Applications Selectable by On-Board Jumper
- Click-Free Automatic Audio-Mute Function during Preset Change
- 4 Audio-Signal Free Control Inputs for FX-Volume & Parameter
- Excellent Signal to Noise Distance @ +15 dBu Headroom
- 2 Audio-Signal Overload Indicator Outputs (Clip-LEDs)
- Firmware Update Possibility via USB & PC Software
- Special Adaptions and Extensions on Request

Effect Program & Parameter Selection Methods

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

Effect Program Indication Method

- Numeric 2x 2-Digit 7-Segment LED-Display

Technical Data

DSP Arithmetic	: 32-Bit Floating-Point
Audio AD/DA Conversion	: 24/24-Bit
S/N A-Weighted	: 114dB @ 1KHz
Dynamic Range	: 114dB
Frequency Response	: 50Hz - 15KHz @ 32.0K fs
Cross-Talk Attenuation	: 106dB @ 1KHz (0dBu In/Out)
Audio Input Impedance	: 10 Kohm, FX-1 and FX-2
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. +5.0VDC / max. +9.0VDC
Power Consumption	: 130 mA (without Display)
Module Dimension	: 59 x 33 x 3.3 mm

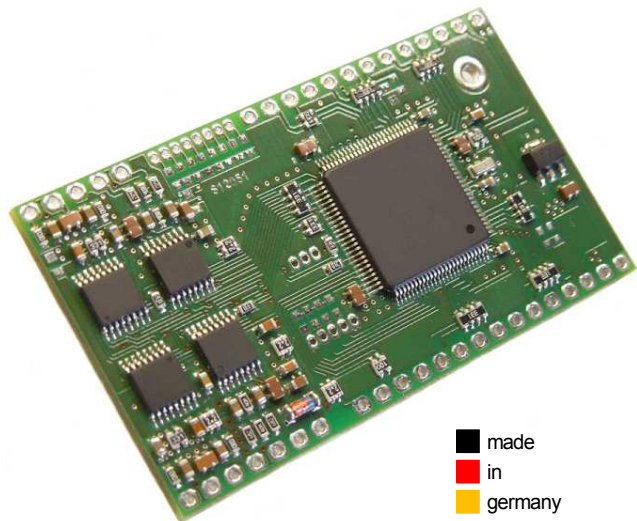
Applications

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

Contact Information

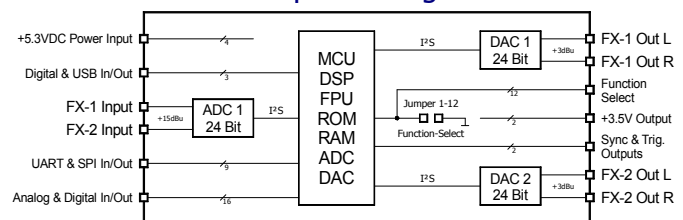
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Simplified Diagram



Factory Default FX-1 & FX-2 Effect-Sound Preset Listing

#	FX-1 PRESETS	FX-2 PRESETS	Timing
1			2.0 sec
2	Hall 1	Hall 2	2.5 sec
3			3.0 sec
4			3.5 sec
5			4.0 sec
6			5.0 sec
7	Cathedral		6.0 sec
8			8.0 sec
9			10.0 sec
10			1.0 sec
11	Room 1		Room 2
12		2.0 sec	
13		3.0 sec	
14	Plate 1	Plate 2	2.0 sec
15			3.0 sec
16			4.0 sec
17			2.0 sec
18	Spring 1	Spring 2	3.0 sec
19			4.0 sec
20			75 ms
21	Voice Doubler		100 ms
22			150 ms
23			300 ms
24	Ambient		400 ms
25			500 ms
26			0.75 sec
27	Chamber		1.00 sec
28			1.25 sec
29			1.50 sec
30			100 ms
31	Gated Reverb		125 ms
32			150 ms
33			200 ms
34			300 ms
35			100 ms
36	Reverse Reverb		125 ms
37			150 ms
38			200 ms
39			300 ms
40			100 ms
41	Echo & Reverb 1	Echo & Reverb 2	150 ms
42			175 ms
43			200 ms
44			225 ms
45			250 ms
46			300 ms
47			350 ms
48			400 ms
49			500 ms

#	FX-1 PRESETS	FX-2 PRESETS	Timing
50			100 ms
51	Echo 40% FB	Echo 50% FB	150 ms
52			175 ms
53			200 ms
54			225 ms
55			250 ms
56			300 ms
57			400 ms
58			500 ms
59			700 ms
60			Echo Left / Right 40% FB
61	200 ms		
62	300 ms		
63	500 ms		
64	700 ms		
65	Echo 3-Tap-Pan 40% FB		150 ms
66			200 ms
67			300 ms
68			500 ms
69			700 ms
70	Chorus		slow
71	Chorus & Reverb	Chorus & Echo	
72	Chorus		medium
73	Chorus & Reverb	Chorus & Echo	
74	Chorus		fast
75	Chorus & Reverb	Chorus & Echo	
76	Flanger		slow
77	Flanger & Reverb	Flanger & Echo	
78	Flanger		- medium
79	Flanger & Reverb	Flanger & Echo	
80	Flanger		+ medium
81	Flanger & Reverb	Flanger & Echo	
82	Flanger		fast
83	Flanger & Reverb	Flanger & Echo	
84	Tremolo		slow
85	Tremolo & Reverb	Tremolo & Echo	
86	Tremolo		- medium
87	Tremolo & Reverb	Tremolo & Echo	
88	Tremolo		+ medium
89	Tremolo & Reverb	Tremolo & Echo	
90	Tremolo		fast
91	Tremolo & Reverb	Tremolo & Echo	
92	Wah Wah		slow
93	Wah Wah & Reverb	Wah Wah & Echo	
94	Wah Wah		- medium
95	Wah Wah & Reverb	Wah Wah & Echo	
96	Wah Wah		+ medium
97	Wah Wah & Reverb	Wah Wah & Echo	
98	Wah Wah		fast
99	Wah Wah & Reverb	Wah Wah & Echo	

Notes:

The determining of 2x16, 2x32 or 2x99 total effect sound presets is selectable by ACE99D 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 ACE99D memory with the use of our PC Software "ACE Creator One".