

ACE600D

Professional 600+600 Preset Double-Effect Module

Release February 2019

Features

- Powerful and Precision 32-Bit DSP with Floating-Point Process Arithmetic
- 2 Independent and Concurrently Usable Effect-Sound Engines (FX1, FX2)
- Fitted with 32 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
- 75dB Wide Range Audio-Input Level Meters with Peak & Hold Function
- 4-Wire Serial-Data to 8-Bit SR Interface for Standard Character LCDs
- 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
- 4 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
- 2 Different LC-Display Sizes Selectable by On-Board Jumper
- 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
- Momentary- and Push/Push-Switches
- Potentiometer-Control for FX-Volume
- Potentiometer-Control for Parameters (Pedal)

Effect Name & Parameter Indication Methods

- Character LC-Display 2x16, 4x16

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 & 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. +5.2VDC / max. +9.0VDC
Power Consumption	: 130 mA (without LCD backlight)
Module Dimension	: 59 x 33 x 3.4 mm

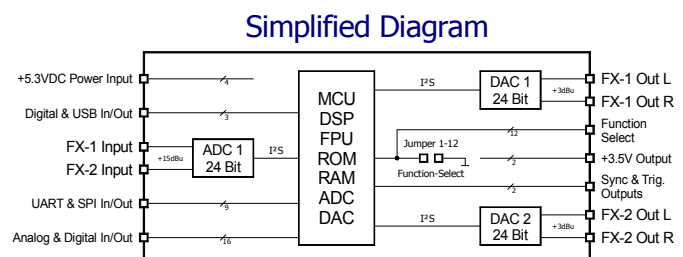
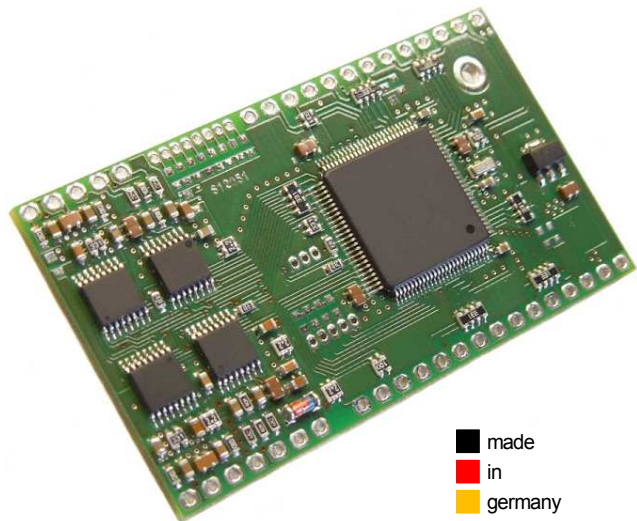
Applications

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

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

388 REVERB EFFECT - SOUNDS											
	HALL	CATH	ROOM	PLATE	SPRING	TUBE	CHAMBER	AMBIENT	VOICE	GATED	REVERSE
P	3.0 sec	3.0 sec	1.0 sec	1.0 sec	0.5 sec	0.5 sec	0.5 sec	0.20 sec	60 ms	75 ms	75 ms
A	2.5 sec	4.0 sec	1.5 sec	1.5 sec	1.0 sec	1.0 sec	0.25 sec	0.25 sec	70 ms	100 ms	100 ms
R	3.0 sec	5.0 sec *	2.0 sec	2.0 sec	1.5 sec	0.7 sec	0.30 sec	0.30 sec	80 ms	125 ms	125 ms
A	3.5 sec	6.0 sec *	2.5 sec *	2.5 sec *	2.0 sec *	0.8 sec *	0.40 sec *	0.40 sec *	90 ms *	150 ms *	150 ms *
M	4.0 sec *	7.0 sec	3.0 sec	3.0 sec	2.5 sec	1.0 sec	0.50 sec	0.50 sec	100 ms	175 ms	175 ms
E	5.0 sec	8.0 sec	3.5 sec	3.0 sec	3.0 sec	1.2 sec	0.60 sec	0.60 sec	120 ms	200 ms	200 ms
T	6.0 sec	10.0 sec	4.0 sec	4.0 sec	3.5 sec	1.4 sec	0.70 sec	0.70 sec	140 ms	250 ms	250 ms
R	8.0 sec	12.0 sec	5.0 sec	5.0 sec	4.0 sec	1.6 sec	0.80 sec	0.80 sec	160 ms	300 ms	300 ms

Effect-Type Amount: 33, 32
 LCD Arrow-Position 1,3 (AP1,3)
 LCD Arrow-Position 2,4 (AP2,4)
 FX-1 Total Preset Count: 600
 FX-2 Total Preset Count: 574

Note:
 Grey marked Presets are not available by FX-2.

320 MIXED & MODULATED EFFECT - SOUNDS

	ECH & REV	DLY & REV	CHORUS	CHO & REV	CHO & REV	FLANGER	FLA & REV	FLA & ECH	TREMOLO	TRE & REV	TRE & ECH	WAH WAH	WAH & REV	WAH & ECH
*	100ms & 1.0 s	100ms & 1.0 s	0.25 Hz	0.25Hz & 6.0 s	0.25Hz & 4.0 s	0.25 Hz	0.25Hz & 6.0 s	0.25Hz & 4.0 s	0.25 Hz	0.25Hz & 6.0 s	0.25Hz & 4.0 s	0.25 Hz	0.25Hz & 6.0 s	0.25Hz & 4.0 s
	125ms & 1.0 s	125ms & 1.0 s	0.50 Hz	0.50Hz & 6.0 s	0.50Hz & 4.0 s	0.50 Hz	0.50Hz & 6.0 s	0.50Hz & 4.0 s	0.50 Hz	0.50Hz & 6.0 s	0.50Hz & 4.0 s	0.50 Hz	0.50Hz & 6.0 s	0.50Hz & 4.0 s
	150ms & 1.5 s	150ms & 1.5 s	0.75 Hz	0.75Hz & 6.0 s	0.75Hz & 3.87ms	0.75 Hz	0.75Hz & 6.0 s	0.75Hz & 3.87ms	0.75 Hz	0.75Hz & 6.0 s	0.75Hz & 3.87ms	0.75 Hz	0.75Hz & 6.0 s	0.75Hz & 3.87ms
	175ms & 1.5 s	175ms & 1.5 s	1.00 Hz	1.00Hz & 5.0 s	1.00Hz & 3.75ms	1.00 Hz	1.00Hz & 5.0 s	1.00Hz & 3.75ms	1.00 Hz	1.00Hz & 5.0 s	1.00Hz & 3.75ms	1.00 Hz	1.00Hz & 5.0 s	1.00Hz & 3.75ms
	200ms & 2.0 s	200ms & 2.0 s	1.25 Hz	1.25Hz & 5.0 s	1.25Hz & 3.62ms	1.25 Hz	1.25Hz & 5.0 s	1.25Hz & 3.62ms	1.25 Hz	1.25Hz & 5.0 s	1.25Hz & 3.62ms	1.25 Hz	1.25Hz & 5.0 s	1.25Hz & 3.62ms
	225ms & 2.0 s	225ms & 2.0 s	1.50 Hz	1.50Hz & 5.0 s	1.50Hz & 3.50ms	1.50 Hz	1.50Hz & 5.0 s	1.50Hz & 3.50ms	1.50 Hz	1.50Hz & 5.0 s	1.50Hz & 3.50ms	1.50 Hz	1.50Hz & 5.0 s	1.50Hz & 3.50ms
	250ms & 2.5 s	250ms & 2.5 s	1.75 Hz	1.75Hz & 4.0 s	1.75Hz & 3.37ms	1.75 Hz	1.75Hz & 4.0 s	1.75Hz & 3.37ms	1.75 Hz	1.75Hz & 4.0 s	1.75Hz & 3.37ms	1.75 Hz	1.75Hz & 4.0 s	1.75Hz & 3.37ms
	275ms & 2.5 s	275ms & 2.5 s	* 2.00 Hz	2.00Hz & 4.0 s	2.00Hz & 3.25ms	* 2.00 Hz	2.00Hz & 4.0 s	2.00Hz & 3.25ms	2.00 Hz	2.00Hz & 4.0 s	2.00Hz & 3.25ms	2.00 Hz	2.00Hz & 4.0 s	2.00Hz & 3.25ms
	300ms & 3.0 s	300ms & 3.0 s	2.25 Hz	2.25Hz & 4.0 s	2.25Hz & 3.12ms	2.25 Hz	2.25Hz & 4.0 s	2.25Hz & 3.12ms	2.25 Hz	2.25Hz & 4.0 s	2.25Hz & 3.12ms	2.25 Hz	2.25Hz & 4.0 s	2.25Hz & 3.12ms
P	325ms & 3.0 s	325ms & 3.0 s	2.50 Hz	2.50Hz & 4.0 s	2.50Hz & 3.00ms	2.50 Hz	2.50Hz & 4.0 s	2.50Hz & 3.00ms	* 2.50 Hz	2.50Hz & 4.0 s	2.50Hz & 3.00ms	* 2.50 Hz	2.50Hz & 4.0 s	2.50Hz & 3.00ms
R	350ms & 3.5 s	350ms & 3.5 s	2.75 Hz	2.75Hz & 3.0 s	2.75Hz & 2.87ms	2.75 Hz	2.75Hz & 3.0 s	2.75Hz & 2.87ms	2.75 Hz	2.75Hz & 3.0 s	2.75Hz & 2.87ms	2.75 Hz	2.75Hz & 3.0 s	2.75Hz & 2.87ms
A	375ms & 3.5 s	375ms & 3.5 s	3.00 Hz	3.00Hz & 3.0 s	3.00Hz & 2.75ms	3.00 Hz	3.00Hz & 3.0 s	3.00Hz & 2.75ms	3.00 Hz	3.00Hz & 3.0 s	3.00Hz & 2.75ms	3.00 Hz	3.00Hz & 3.0 s	3.00Hz & 2.75ms
M	400ms & 4.0 s	400ms & 4.0 s	3.25 Hz	3.25Hz & 3.0 s	3.25Hz & 2.62ms	3.25 Hz	3.25Hz & 3.0 s	3.25Hz & 2.62ms	3.25 Hz	3.25Hz & 3.0 s	3.25Hz & 2.62ms	3.25 Hz	3.25Hz & 3.0 s	3.25Hz & 2.62ms
E	450ms & 4.5 s	450ms & 4.5 s	3.50 Hz	3.50Hz & 3.0 s	3.50Hz & 2.50ms	3.50 Hz	3.50Hz & 3.0 s	3.50Hz & 2.50ms	3.50 Hz	3.50Hz & 3.0 s	3.50Hz & 2.50ms	3.50 Hz	3.50Hz & 3.0 s	3.50Hz & 2.50ms
T	500ms & 5.0 s	500ms & 5.0 s	3.75 Hz	3.75Hz & 3.0 s	3.75Hz & 2.37ms	3.75 Hz	3.75Hz & 3.0 s	3.75Hz & 2.37ms	3.75 Hz	3.75Hz & 3.0 s	3.75Hz & 2.37ms	3.75 Hz	3.75Hz & 3.0 s	3.75Hz & 2.37ms
E	550ms & 5.5 s	550ms & 5.5 s	4.00 Hz	4.00Hz & 2.0 s	4.00Hz & 2.25ms	4.00 Hz	4.00Hz & 2.0 s	4.00Hz & 2.25ms	4.00 Hz	4.00Hz & 2.0 s	4.00Hz & 2.25ms	4.00 Hz	4.00Hz & 2.0 s	4.00Hz & 2.25ms
R	600ms & 6.0 s	600ms & 6.0 s	4.25 Hz	4.25Hz & 2.0 s	4.25Hz & 2.12ms	4.25 Hz	4.25Hz & 2.0 s	4.25Hz & 2.12ms	4.25 Hz	4.25Hz & 2.0 s	4.25Hz & 2.12ms	4.25 Hz	4.25Hz & 2.0 s	4.25Hz & 2.12ms
A	650ms & 6.5 s	650ms & 6.5 s	4.50 Hz	4.50Hz & 2.0 s	4.50Hz & 2.00ms	4.50 Hz	4.50Hz & 2.0 s	4.50Hz & 2.00ms	4.50 Hz	4.50Hz & 2.0 s	4.50Hz & 2.00ms	4.50 Hz	4.50Hz & 2.0 s	4.50Hz & 2.00ms
M	700ms & 7.0 s	700ms & 7.0 s	4.75 Hz	4.75Hz & 2.0 s	4.75Hz & 1.87ms	4.75 Hz	4.75Hz & 2.0 s	4.75Hz & 1.87ms	4.75 Hz	4.75Hz & 2.0 s	4.75Hz & 1.87ms	4.75 Hz	4.75Hz & 2.0 s	4.75Hz & 1.87ms
E	750ms & 7.5 s	750ms & 7.5 s	5.00 Hz	5.00Hz & 2.0 s	5.00Hz & 1.75ms	5.00 Hz	5.00Hz & 2.0 s	5.00Hz & 1.75ms	5.00 Hz	5.00Hz & 2.0 s	5.00Hz & 1.75ms	5.00 Hz	5.00Hz & 2.0 s	5.00Hz & 1.75ms
T	800ms & 8.0 s	800ms & 8.0 s	5.25 Hz	5.25Hz & 1.0 s	5.25Hz & 1.67ms	5.25 Hz	5.25Hz & 1.0 s	5.25Hz & 1.67ms	5.25 Hz	5.25Hz & 1.0 s	5.25Hz & 1.67ms	5.25 Hz	5.25Hz & 1.0 s	5.25Hz & 1.67ms
E	850ms & 8.5 s	850ms & 8.5 s	5.50 Hz	5.50Hz & 1.0 s	5.50Hz & 1.50ms	5.50 Hz	5.50Hz & 1.0 s	5.50Hz & 1.50ms	5.50 Hz	5.50Hz & 1.0 s	5.50Hz & 1.50ms	5.50 Hz	5.50Hz & 1.0 s	5.50Hz & 1.50ms
R	900ms & 9.0 s	900ms & 9.0 s	5.75 Hz	5.75Hz & 1.0 s	5.75Hz & 1.37ms	5.75 Hz	5.75Hz & 1.0 s	5.75Hz & 1.37ms	5.75 Hz	5.75Hz & 1.0 s	5.75Hz & 1.37ms	5.75 Hz	5.75Hz & 1.0 s	5.75Hz & 1.37ms
E	1000ms & 10 s	1000ms & 10 s	6.00 Hz	6.00Hz & 1.0 s	6.00Hz & 1.25ms	6.00 Hz	6.00Hz & 1.0 s	6.00Hz & 1.25ms	6.00 Hz	6.00Hz & 1.0 s	6.00Hz & 1.25ms	6.00 Hz	6.00Hz & 1.0 s	6.00Hz & 1.25ms

Abbreviations:

- ECH & REV = Echo and Reverb (40% FB)
- DLY & REV = Delay and Reverb (0% FB)
- CHORUS = Chorus and Reverb
- CHO & REV = Chorus and Echo 40% FB
- CHO & ECH = Chorus and Echo 40% FB
- FLA & REV = Flanger and Reverb
- FLA & ECH = Flanger and Echo 40% FB
- TRE & REV = Tremolo and Reverb
- TRE & ECH = Tremolo and Echo 40% FB
- WAH & REV = Wah-Wah and Reverb
- WAH & ECH = Wah-Wah and Echo 40% FB
- ECHO 30 = Delay with 30% Feedback
- ECHO 40 = Delay with 40% Feedback
- ECHO 50 = Delay with 50% Feedback
- ECHO LR = Left / Right Delay with 40% FB
- ECHO 3T = 3 Tap Pan. Delay with 40% FB
- DLY LR = Left / Right Delay with 0% FB
- DLY 3T = 3 Tap Pan. Delay with 0% FB
- CATH = Cathedral Reverb

* Factory default selected presets at delivery

192 DELAY EFFECTS	
ECHO 30	AP1
ECHO 40	AP3
ECHO 50	
ECHOLR	
ECHO 3T	
DELAY	
DLY LR	
DLY 3T	

50 ms	
75 ms	
100 ms	
125 ms	
150 ms	
175 ms	
200 ms *	
225 ms	
250 ms	
275 ms	
300 ms	
325 ms	
350 ms	
375 ms	
400 ms	
450 ms	
500 ms	
550 ms	
600 ms	
650 ms	
700 ms	
800 ms	
900 ms	
1000 ms	

P A R A M E T E R

