

Acxel2 STUDIO



The « F1 » Of Synthesizers



Photo courtesy of puremastering.com

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- ✓ Acxel2 PC 201 base RPP processor (200 Gops)
- ✓ 384 MB DRAM
- ✓ 1280 cells, 16 voices polyphony
- ✓ 4/8 I/O analog 24bits/44,1 - 352,8 Khz / 48 - 384 Khz (1/4" Jack)
- ✓ 4 I/O Mic/Line XLR (include 2 x 48V Phantom Power selectable)
- ✓ 1 x AUX In/Out stereo
- ✓ 1 x Optical In/Out
- ✓ 1 x Ethernet connexion
- ✓ 6 x USB2 interfaces
- ✓ 1 x USB-B (slave/target)

- ✓ 2 x IEEE 1394
- ✓ Word clock In/Out
- ✓ 1 x I/O Coaxial
- ✓ 2 x Digital Visual Interface (DVI) for screen
- ✓ 2 x Midi In/Out
- ✓ 1 x Midi Thru
- ✓ 2 x Foot#Control Connexion
- ✓ 1 additional DSP co-processor
- ✓ 1 x headphone output
- ✓ OpMod_01 - Wavelets transforms, Wavetable
- ✓ OpMod_02 - Vocoder, Voice processing
- ✓ OpMod_03 - Physical modeling

- ✓ OpMod_04 - Articulation package, Macros & Effects
- ✓ OpRes_01- Multiple signal analysis
- ✓ OpRes_02- Single signal continuous resynthesis : Real Time Input Signal Analyzer
- ✓ OpRes_03- Multiple signal analysis, Real Time Input Signal Analyzer, Multiple continuous resynthesis
- ✓ OpRes_04- Resynthesis extended duration.
- ✓ SD Flash Memory Interface
- ✓ 2 x 4 in. Touch Screen

- ✓ Operating Host System WIN/MAC
- ✓ System software interface Acxelator® - analysis software
- ✓ 256 sounds library
- ✓ 3 years free access to users Forum
- ✓ 1 year free membership to « Online Priority Support »
- ✓ Dimensions (2U): 48,3 cm x 32,4 cm x 8,9cm (19" x 12 3/4" x 3 1/2")
- ✓ 1 year warranty
- ✓ 17 " LCD touch screen panel (a USB2 LED matrix touch screen option available in Fall 2010)

SYNTHESIS	Base	OPTIONS
<p>Synthesis – Resynthesis</p> <p>Software Synthesis Modes</p> <p>Editing Tools</p> <p>Real Time Control Tools and Other Processing Modes</p>	<ul style="list-style-type: none"> ▪ ACXELINK BASED REAL TIME MULTIMODE SYNTHESIS AND SOUND PROCESSING ▪ GRAPHIC AUDIO EDITING SOFTWARE ▪ ACXELINK ▪ ADDITIVE, ▪ ANALOG ▪ PHYSICAL MODELING, ▪ WAVELETS, ▪ WAVETABLE, ▪ VOCODER ▪ MACRO FUNCTIONS: PRESETS MACROS AND USER DEFINED MACROS ▪ GRAPHIC CELLS LINKS (ACXELINK) ▪ Graphic Global links ▪ Midi controller settings & assignments ▪ Spectra ▪ Envelopes (ADSR, Points) ▪ Hierarchical structure ▪ GRAPHER LCD 17" (high resolution) ▪ Tool: Effect Processing 	<ul style="list-style-type: none"> ▪ GRAPHER PANEL (Leds) : Multiple touch controller assignments and Pressure sensitive control ▪ Tool: Dynamic Mixing Console
<p>ACXELATOR (Resynthesis Analyzer)</p> <p>Signals</p> <p>Modes</p> <p>Source type</p> <p>Destination Synth. Modes</p>	<p>Base</p> <ul style="list-style-type: none"> ▪ Single Input ▪ Multiple signal analysis ▪ Continuous resynthesis: Real Time Input signal Analyzer ▪ Multiple Continuous resynthesis: Multiple Real Time Input signal Analyzer ▪ Extended Duration ▪ Enhance Quality ▪ Enhance Polyphony ▪ Signal Input ▪ Wave file ▪ Acxellink ▪ Additive Synthesis 	<p>OPTIONS</p> <p>None</p>
<p>SOUND PERFORMANCES</p> <p>Modes Synthesis Waveform count</p> <p>Synthesis Waveforms</p> <p>Processing Cells Modes Base Parameters</p> <p>Links Source types Destination Envelopes links Dest. Signal Input Links Links parameters</p> <p>GLOBAL Cell to Voice Assignment</p> <p>Global Parameters</p> <p>Output controls</p>	<p>Items</p> <ul style="list-style-type: none"> ▪ Synthesis, Signal process ▪ 2 per cell: Base, Secondary (for Morphing) ▪ Sine, Square, Sawtooth (+, -, Triangle, Noise, Programmable ▪ Record, Playback, Capture ▪ Amplitude, Frequency, Phase, Filter Cutoff / Slope, G (PWM, Morphing) ▪ Cell, Signal Input, Instrument ▪ Each Base Parameter ▪ 3 per cell (main, secondary 1 – 2) ▪ Link Source selection ▪ Attenuation and Inversion, ▪ Affection in Additive or Multiplicative form ▪ Independent on each cell, dynamically allocable ▪ Level, Pitch ▪ Envelope: Left-Right, Front-Back (Top-Bottom, w 8 out option) <p>ENVELOPES TYPES</p> <p>Processing Cell Count (RAM) Processing Ram on cells</p> <p>Ram control from cell Cell Amplitude Env.-Link Cell Frequency Env.-Link Cell Phase/Delay-Link</p> <p>Cell Filter Envelope-Link Filters count Filters types</p> <p>Cell General Env.Function</p> <p>LFO MIDI Controls</p> <p>MIDI Destinations types</p> <p>CONTROLS SOURCES</p>	<p>Details</p> <ul style="list-style-type: none"> ▪ Point-to-point with variable length and loop points, ADSR with looping ▪ One per Even Cell (base 128) ▪ 8 M x 24 bits, with configurable length and loop points ▪ Frequency, looped/non-looped, size ▪ Absolute or Relative to Voice ▪ Absolute or Relative to Voice ▪ Phase – Synthesis, ▪ Delay – Processing ▪ Frequency Cut-off, type, base slope ▪ One per Even Cell (base 128) ▪ Low-Pass, High-Pass, Band-Pass with 1 – 24 db / octave ▪ Selection from: PWM, Morphing, ▪ Each cell can be set as LFO ▪ On any Cells' Parameter(s) – Voice parameters ▪ Spectra - Dual with balance, any parameter(s) ▪ Envelopes – Dual with Balance, any parameter(s) ▪ MIDI – assignment to sound elements parameters ▪ Signal Inputs: Signal, Amp / Pitch detect, thru Cells Links ▪ Instrument: thru Cells Links ▪ GRAPHER Panel: used as controller on 3D operation – X, Y, Pressure

Acxel 2 «STUDIO» is our high performance independent unit, rack mounted in a prestigious black box (2U). For commercial professional recordings, production and post-production studios as well as the professional scene, it can be operated as a stand alone unit or into a «rack» cabinet. All standard connections are present (midi, audio analog, USB2, USB-B, IEEE1394 and Phantom power) including 8 inputs / outputs, a sampling rate, at 24-bits from 44.1 kHz to 352.8 kHz and 48 Khz to 384 Khz, our complete extension system, an additional DSP co-processor, a 17-inch LCD touch screen panel or a LED matrix touch screen (LED available in 2010). The Analog (OpANA) and Digital packages (OpDIC) and a 256 sounds library are included.