SUPERCRITICAL S Y N T H E S I Z E R S

POWER CABLE is connected in the back with a shrouded connector. Remember to match the red stripe with -12V and the stripe marked in the module. The power consumption is 120mA for +12V and 30mA for -12V. It doesn't use the 5V rail.

MIDI/TUNE LED indicates concert pitch when coarse and fine tune are 1V/OCT is a calibrated pitch input for the global oscillator pitch rotated. It blinks on every C note (when there's no offset in 1V/oct) and when fine tune is at center position for accurate tuning to A440. SUPERCRITICAL It also shows MIDI activity when expander is connected 16 Voice DEMON CORE OSCILLATOR FM CV is a bipolar FM input for global oscillator pitch COARSE TUNE IV / OCT with ±5V range COARSE TUNE adjusts the coarse tune of the oscillator over 7 octaves in half step intervals **FINE TUNE** FM CV SPREAD / PWM CV is a CV for spread control (offset with the FINE TUNE adjusts the fine tune of the oscillator over half step range SPREAD pot) when saw wave is selected. When pulse is selected it modulates the pulse width. The input is unipolar with ±5V range FM AMOUNT FM AMOUNT attenuates the signal fed in FM CV input SPREAD / PWM CV STABILITY CV is a CV for the core stability (offset with the SPREAD CORE STABILITY control). The input is unipolar with ±5V range SPREAD controls the static spread between oscillator voices FN + SPREAD attenuates the PWM CV input when pulse wave is set SYNC TRIG is a trigger input for the time sync. When triggered CORE STABILITY all unison waves' phases sync. If the SPREAD control is slightly CORE STABILITY controls oscillator drift in each oscillator voice. All the way down every voice's tuning is strictly accurate and all the way raised the phases spread over time. It works best if STABILITY [PWM] up it acts like a broken VCO with radical drifting. is near off or raised just a tad. The input accepts a 10ms trigger FN + STABILITY controls the pulse width offset between 0% - 100% signal which exceeds +5V threshold. when pulse wave is set SYNC TRIG 0000 [PW] 0 VOICES BUTTON controls the amount of voices used. The values are **OUTPUT** is a mono output of the module. Since all sound the set between 1-2-3-4-5-6-8-10-12-16 voices and then back to single voice module makes is analog the output level might need some O VOICES O again. Constantly lit LEDs indicate unison depth. These voices are then adjustment when adjusting the amount of used voices and their 0000 allocated between unison and octave stacks. (Polyphony with expander) tuning. 16 voices, CORE STABILITY, SPREAD off and O PULSE OUTPUT WAVE + VOICES control octave stack depth. When WAVE is pressed SYNC TRIG is triggered causes the loudest level the module can O SAW down the LEDs blink fast and indicate octave stack depth. make. WAVE FUNCTION WAVE BUTTON chooses the waveform of the oscillator. Saw is FUNCTION BUTTON [FN] is the shift button of the device and accesses a reverse saw wave and pulse is a variable pulse wave ranging the alternative functions for other buttons and knobs. from 0% via square to 100% pulse wave. (if the module makes FN + WAVE + VOICES resets all controls to what-you-see-is-what-you-get no sound at the output, it might be set to single voice with 0% mode. All hidden controls are reset to panel values. pulse wave.)

ALL POTENTIOMETERS work in jump mode when using alternate controls. Buttons have a short press mode with a 0,5sec "click" and in some cases, a long press mode with over 0,5sec hold. The LEDs also have a fast and slow blinking rate indicating different functions.

16 Voice **DEMON CORE OSCILLATOR**QUICK START **GUIDE** (Firmware 1.0)