

	Cobalt5S	Cobalt8
<b>Polyphony</b>	True 5 voice polyphonic	True 8 voice polyphonic
<b>MPE</b>	Supports MPE-compatible MIDI controllers, allowing you to apply polyphonic control and expression to individual notes	Supports MPE-compatible MIDI controllers, allowing you to apply polyphonic control and expression to individual notes
<b>Oscillators</b>	40 high-resolution virtual-analogue oscillators, up to 8 per voice  Two independent and self-contained oscillator groups with sine, pulse, triangle, sawtooth waveforms plus 40 different algorithms including: complex analogue synthesis techniques, built-in cross modulation (SYNC, RM, and many more), PWM, smooth morphing between VA waves, bit crushing and filtered noise.  Extended Oscillator Drift	64 high-resolution virtual-analogue oscillators, up to 8 per voice  Two independent and self-contained oscillator groups with sine, pulse, triangle, sawtooth waveforms, 40 different algorithms including: complex analogue synthesis techniques, built-in cross modulation (SYNC, RM, and many more), PWM, smooth morphing between VA waves, bit crushing, filtered noise.  Extended Oscillator Drift
<b>Filter</b>	4-Pole Morphable Ladder Filter with Resonance and four switchable configurations  Resonance and Balanced Filter Modes	4-Pole Morphable Ladder Filter with Resonance and four switchable configurations  Resonance and Balanced Filter Modes
<b>Modulation</b>	Three dedicated envelope generators for AMP, MOD and FILTER that can be accessed independently or all three simultaneously including negative (reverse) versions for MOD and FILTER ENVs  Two audio-rate LFO's with tempo sync (one poly, one global) with seven different shapes  Eight assignable modulation slots and four additional fixed modulation routings for common assignments with 11 modulation sources and 41 modulation destinations	Three dedicated envelope generators for AMP, MOD and FILTER that can be accessed independently or all three simultaneously including negative (reverse) versions for MOD and FILTER ENVs  Three audio-rate LFO's with tempo sync (two poly, one global) with seven different shapes  Eight assignable modulation slots and four additional fixed modulation routings for common assignments with 12 modulation sources and 55 modulation destinations
<b>Sequencer and Arpeggiator</b>	Polyphonic realtime sequencer with 512 notes and four recordable/editable parameter animations (Delay FX, LFO's, sequencer and arpeggiator can be either clocked internally or externally)  Polyphonic Step Sequencer with 64 steps, 5 notes per step, 4 lanes of Parameter-Lock style animation, Step Input mode, multiple playback modes including gate modes and rest function  Built-In sophisticated programmable arpeggiator of 32 steps with rest capability and up to 2048 steps before repeating	Polyphonic Real-time sequencer with 512 notes and four recordable/editable parameter animations (Delay FX, LFO's, sequencer and arpeggiator can be either clocked internally or externally)  Polyphonic Step Sequencer with 64 steps, 8 notes per step, 4 lanes of Parameter-Lock style animation, Step Input mode, multiple playback modes including gate modes and rest function  Built-In sophisticated programmable arpeggiator of 32 steps with rest capability with up to 2048 steps before repeating
<b>FX</b>	Two incredibly powerful independent and user-configurable stereo FX engines for Chorus and Stereo Delay	Three incredibly powerful independent and user-configurable stereo FX engines for Chorus, Phaser, Flanger (Pos), Flanger (Neg), Tremolo, LoFi, Rotary, Stereo Delay, Ping-Pong Delay, X-Over Delay and Reverb that can be arranged in any order
<b>User Memory</b>	300 patch memories, all fully editable; ships with 200 factory programs  100 sequencer presets that can be linked to any patch for quickly loading arrangements  4 Quick Recall slots accessible from the panel for quickly loading your favourite patches	500 patch memories, all fully editable and ships with 300 factory programs  100 sequencer presets that can be linked to any patch for quickly loading arrangements  100 FX presets  8 Quick Recall slots accessible from the panel for quickly loading your favourite patches
<b>Controls and Performance</b>	Premium 37 compact-key keyboard with velocity and channel aftertouch  16 switched encoders support realtime CC message transmissions to other MIDI devices or DAWs  Five-axis X/Y/Z pressure-sensitive keypad for pitch bend, mod wheel and/or modulation assignments  Multiple keyboard modes, Mono, Poly, Stack 2, Unison 2, Unison 4  Glide/Portamento with both legato and staccato modes	Premium FATAR 37-key Keyboard with velocity and channel aftertouch  29 endless encoders, 24 buttons  4-axis joystick that can be assigned to a huge range of modulation destinations and virtually 'locked' when desired  Multiple keyboard modes, Mono, Poly, Unison 2, Unison 4, Unison 8, Stack 2 and Stack 4  Glide/Portamento with both legato and staccato modes  Chord Invert control to easily create chord inversions and variations
<b>Inputs and Outputs</b>	6.35 mm / 1/4" TS dual-mono line outputs 6.35 mm / 1/4" TRS headphone output MIDI DIN In and Out 3.5 mm / 1/8" TS Analogue clock sync In and Out Class compliant MIDI over USB connection 6.35 mm / 1/4" TS sustain pedal input	6.35 mm / 1/4" TS dual-mono line outputs 6.35 mm / 1/4" TRS headphone output 3.5 mm / 1/8" TRS stereo audio input MIDI DIN In and Out 3.5 mm / 1/8" TS Analogue clock sync In and Out Class compliant MIDI over USB connection 6.35 mm / 1/4" TRS expression pedal input 6.35 mm / 1/4" TS sustain pedal input
<b>Enclosure and Display</b>	Durable polycarbonate enclosure  1 large monochrome OLED display for instant visual feedback at all times of playing/editing	Road-ready steel and aluminium enclosure with economical stained bamboo end cheeks  1.54-inch large OLED display for instant visual feedback at all times of playing/editing
<b>Power</b>	Power: DC-9.0V – 1.5A centre-positive or USB-bus powered	Power: DC-9.0V – 1.5A centre-positive
<b>General</b>	Dimensions (L x W x H): 56.5 x 16.2, x 5.7 cm / 22.24" x 6.38" x 2.24" Weight: 2.36 kg / 5.20 lbs	Dimensions (L x W x H): 555 x 300 x 100 mm / 21.9" x 11.8" x 4" Weight: 5.60 kg / 12.4 lbs