

===== MIDIBox Juno Control (JuCtrl) =====

{ { <http://www.subfrequenz.net/visuals/albums/userpics/10001/20120316MidiboxJuCTRL002.jpg> } }

===== Project Description ===== The **MIDIBox JuCtrl** is a **Alpha Juno** MIDI Controller [[https://en.wikipedia.org/wiki/Roland\\_Alpha\\_Juno](https://en.wikipedia.org/wiki/Roland_Alpha_Juno)]. It's an additional **control surface** and MIDI Controller for the Roland Alpha Juno Synthesizer. I started this Project because the original Juno User CS is very minimalistic (80s Style). With the **MIDIBox JuCtrl** is every Tone parameter directly at hand. Furthermore you can store all 128 Juno Tone Colours on one Banksticks (1024 Juno Tones with 8 Banksticks). ===== Functions ===== \* Control every Juno Tone Parameter with an encoder or button \* Control one parameter (Juno IPR Sysex) or send all parameter at once (Juno APR Sysex) \* Store Juno patches (Tones) on Bankstick (Juno BLD Sysex) \* Have a clearly arranged parameter overview (via CS LCD & LED) \* MIDI processing: MIDI CC to Juno Sysex conversation (and Juno Sysex to MIDI CC conversation) \* Use some extra Envelope functions (set all Envelope leve/time parameter to min or max & manipulate all time or level parameter at once with an encoder) ===== Hardware ===== **JuCtrl Hardware:** \* 1x MBHP Core8 (PIC 18F4620) | =>

([http://www.ucapps.de/mbhp\\_core.html](http://www.ucapps.de/mbhp_core.html)) \* 1x LCD Module: 2x20 LCD (8bit) | =>

([http://www.midibox.org/users/jim\\_henry/building\\_a\\_midibox\\_lcd\\_cable.pdf](http://www.midibox.org/users/jim_henry/building_a_midibox_lcd_cable.pdf)) \* 2x MBHP DOUTx4 | => ([http://www.ucapps.de/mbhp\\_dout.html](http://www.ucapps.de/mbhp_dout.html)) \* 3x MBHP DINx4 | =>

([http://www.ucapps.de/mbhp\\_din.html](http://www.ucapps.de/mbhp_din.html)) \* 1x MBHP IIC MIDI Module (extra MIDI IO for Juno Synth) IIC MIDI adr. = 0x10(J3 port) | => ([http://www.ucapps.de/mbhp\\_iic\\_midi.html](http://www.ucapps.de/mbhp_iic_midi.html)) \* 1-8x Bankstick | Store 128-1024 Juno Tones [24256(32k)] => ([http://www.ucapps.de/mbhp\\_bankstick.html](http://www.ucapps.de/mbhp_bankstick.html)) ===== Details ===== \* Ju Control CS (LED's, Buttons, Encoders, LCD) | =>

{ { :juctrl:juctrl\_cs\_mbhp\_btn\_led\_enc\_lcd\_pin\_numbers\_and\_symbols.pdf } } (08/2012) \* Ju Control

MBHP DIN & DOUT | => { { :juctrl:juctrlidindout.pdf } } (08/2012) \* JuCtrl Juno MIDI IO dataflow

(overview) | => { { :juctrl:juctrldataflowoverview.pdf } } (08/2012) ===== CC MIDI ===== |MIDI CC 001 - MODULATION WHEEL | |MIDI CC 002 - DCO ENV MODE | |MIDI CC 003 - VCF ENV MODE | |MIDI CC 004 - FOOD CONTROL | |MIDI CC 005 - PORTAMENTO TIME (REAL CC) | |MIDI CC 006 - VCA ENV MODE | |MIDI CC 007 - VOLUME (REAL CC) | |MIDI CC 008 - DCO WAVEFORM Pulse (0..3) | |MIDI CC 009 - DCO WAVEFORM Saw (0..5) | |MIDI CC 010 - DCO SUB WAVEFORM (0..5) | |MIDI CC 011 - DCO Range (0=4', 1=8', 2=16', 3=32') | |MIDI CC 012 - DCO Sub Osc Level (0..3) | |MIDI CC 013 - DCO Noise Level (0..3) | |MIDI CC 014 - HPF Cutoff (0..3) | |MIDI CC 015 - Chorus Switch (0=Off, 1=On) | |MIDI CC 016 - DCO LFO Modulation (0..7F) | |MIDI CC 017 - DCO Envelope Pitch Modulation Depth (0..7F) | |MIDI CC 018 - DCO Aftertouch Modulation Sensitivity (0..7F) | |MIDI CC 019 - DCO WAVE 3 PULSE WITH (0..7F) | |MIDI CC 020 - DCO WAV3 PWM Rate (0..7F) | |MIDI CC 021 - VCF Cutoff (0..7F) | |MIDI CC 022 - VCF Resonance (0..7F) | |MIDI CC 023 - VCF LFO Modulation Depth (0..7F) | |MIDI CC 024 - VCF ENV Modulation Depth (0..7F) | |MIDI CC 025 - VCF Key Follower (0..F) | |MIDI CC 026 - VCF Aftertouch (0..F) | |MIDI CC 027 - VCA Level (0..7F) | |MIDI CC 028 - VCA Aftertouch Sesityivity (00..0F) | |MIDI CC 029 - LFO Rate (0..7F) | |MIDI CC 030 - LFO Delay (0..7F) | |MIDI CC 031 - ENV T1 - Attack Time (0..7F) | |MIDI CC 032 - ENV L1 - Attack Level (0..7F) | |MIDI CC 033 - ENV T2 - Break Time (0..7F) | |MIDI CC 034 - ENV L2 - Break Level (0..7F) | |MIDI CC 035 - ENV T3 - Decay Time (0..7F) | |MIDI CC 036 - ENV L3 - Sustain Level (0..7F) | |MIDI CC 037 - ENV T4 - Release Time | |MIDI CC 038 - ENV Key Follower (0..0F) | |MIDI CC 039 - Chorus Rate (0..7F) | |MIDI CC 040 - DCO Bender Range (0..C) | |MIDI CC 041 | |MIDI CC 042 | |MIDI CC 043 | |MIDI CC 044 | |MIDI CC 045 | |MIDI CC 046 | |MIDI CC 047 | |MIDI CC 048 | |MIDI CC 049 | |MIDI CC 050 | |MIDI CC 051 | |MIDI CC 052 | |MIDI CC 053 | |MIDI CC 054 | |MIDI CC 055 | |MIDI CC 056 | |MIDI CC 057 | |MIDI CC 058 | |MIDI CC 059 | |MIDI CC 060 | |MIDI CC 061 | |MIDI CC 062 | |MIDI CC 063 | |MIDI CC 064 - Hold ON/OFF (REAL CC) | |MIDI CC 065 - Portamento ON/OFF (REAL CC) | |MIDI CC 066 | |MIDI CC 067 | |MIDI CC 068 | |MIDI CC 069 | |MIDI CC 070 | |MIDI CC 071 | |MIDI CC 072 | |MIDI CC 073 | |MIDI CC 074 | |MIDI CC 075 | |MIDI CC 076 | |MIDI CC 077 | |MIDI CC 078 | |MIDI CC 079 | |MIDI CC 080 | |MIDI CC 081 | |MIDI CC 082 | |MIDI CC 083 | |MIDI CC 084 | |MIDI CC 085 | |MIDI CC 086 | |MIDI CC 087 | |MIDI CC 088 | |MIDI CC 089 | |MIDI CC 090 | |MIDI CC 091 | |MIDI CC 092 | |MIDI CC 093 | |MIDI CC 094 | |MIDI CC 095 | |MIDI CC 096 | |MIDI CC 097 | |MIDI CC 098 | |MIDI CC 099 | |MIDI CC 100 | |MIDI CC 101 | |MIDI CC 102 | |MIDI CC 103 | |MIDI CC 104 | |MIDI CC 105 |

|MIDI CC 106 | |MIDI CC 107 | |MIDI CC 108 | |MIDI CC 109 | |MIDI CC 110 | |MIDI CC 111 | |MIDI CC 112 | |MIDI CC 113 | |MIDI CC 114 | |MIDI CC 115 | |MIDI CC 116 | |MIDI CC 117 | |MIDI CC 118 | |MIDI CC 119 | |MIDI CC 120 | |MIDI CC 121 | |MIDI CC 122 - Local ON/OFF (REAL CC) | |MIDI CC 123 - ALL NOTES OFF (REAL CC) | |MIDI CC 124 - OMNI OFF (REAL CC) | |MIDI CC 125 - OMNI ON (REAL CC) | |MIDI CC 126 - MONO ON (REAL CC) | |MIDI CC 127 - POLY ON (REAL CC) | ===== Notes ===== \*

**\*\*Note:\*\*** Set **\*\*SYSEX ON\*\*** @AlphaJuno (JuCtrl will not work if SYSEX = off) \* **\*\*Note:\*\*** JuCtrl CS will pick up all the TONE (Sound) Parameters automatically - if you make changes @Alpha Juno \* **\*\*Note:** HOW TO SET JUNO SYSEX ON\*\* - @Alpha Juno: Push the [MIDI] Button as many times until the MIDI SYSEX OPTION "MIDI EXCL" appears. - Use the dial for changing. - By writing the data of the MIDI Function setting into the back-up memory, it can be retained even when the Juno is turned off: \* set the Memory Protect Switch to OFF position. Push the MIDI Button. \* While holding the Write Button down, push the MIDI Button. The Juno Display will change to: "Write MIDI FUNC." \* When the MIDI Button is pushed: "Write Complete!" \* **\*\*Note: WRITE JUNO TONE DATA TO BANKSTICK\*\*** - SELECT THE PREFERRED BANKSTICK (1-8) with [SELECT BANKSTICK] BUTTON and [VALUE] ENCODER - SELECT YOUR PREFERRED BANKSTICK AREA with the [MIDI ProgChange] ENCODER \* MIDI ProgChange = 1-64 = You will WRITE Juno Tone Colours to BANKSTICK 1 -64 \* MIDI ProgChange = 65-128 = You will WRITE Juno Tone Colours TO BANKSTICK 65 -128 - Set [PRESET] (64x PRESET TONE COLOURS) or [MEMORY] (64x MEMORY TONE COLOURS) @Alpha Juno - PRESS: [DATA TRANSFER] + [WRITE] + [DUMP] @Alpha Juno - Now JuCtrl will RECEIVE 64 TONE COLOURS via SYSEX-DATA and write 64x TONE PATCHES to your selected BANKSTICK. \* All Done. \* BROWNS THE STORED TONE COLOURS with the "SELECT BANKSTICK TONE" ENCODER (0-127) \* THE TONE NAME WILL APPEAR ON THE JuCtrl LCD. LOAD A STORED TONE COLOUR WITH THE BUTTON "SEND TONE TO CS" \* NOW THE CS IS LOADED. \* PRESS [SEND TONE TO JUNO] BUTTON for WRITING THE CURRENT CS DATA BACK TO ALPHA JUNO \*

**\*\*Note: ENVELOPE FUNCTIONS\*\*** \* There are some ENVELOPE FUNCTIONS: - LEVEL MAX: set all ENVELOPE LEVEL to max value (127) - LEVEL MIN: set all ENVELOPE LEVEL to min value (0) - ENVELOPE TIME MAX: set all ENVELOPE TIME PARAMETER to max value (127) - ENVELOPE TIME MIN: set all ENVELOPE TIME PARAMETER to min value (0) - IF YOUR LAST ACTION (@CS) WAS AN ENVELOPE MANIPULATION, YOU CAN MANIPULATE ALL TIME or LEVEL PARAMETER with the [VALUE] ENCODER

{ {juctrl:juctrluserpanel.jpg} } ===== ProgChange ===== \* **\*\*Juno ProgChange & JuCtrl Bankstick TONE (overview)\*\*** |JuCtrl | MIDI | Juno | Alpha Juno |JuCtrl BANKSTICK (1-8) | | LCD | ProgCh | BANK NUMBER| GROUP | TONE | BS content| BS content | BS content | | 1 | 0 | 1 1 | MEMORY | 0 | MEMORY 1 1 |or PRESET 1 1 | or USER SAVED "JuCtrl CS" | | 2 | 1 | 1 2 | MEMORY | 1 |MEMORY 1 2 |or PRESET 1 2 | or USER SAVED "JuCtrl CS" | | 3 | 2 | 1 3 | MEMORY | 2 |MEMORY 1 3 |or PRESET 1 3 | or USER SAVED "JuCtrl CS" | | 4 | 3 | 1 4 | MEMORY | 3 |MEMORY 1 4 |or PRESET 1 4 | or USER SAVED "JuCtrl CS" | | 5 | 4 | 1 5 | MEMORY | 4 |MEMORY 1 5 |or PRESET 1 5 | or USER SAVED "JuCtrl CS" | | 6 | 5 | 1 6 | MEMORY | 5 |MEMORY 1 6 |or PRESET 1 6 | or USER SAVED "JuCtrl CS" | | 7 | 6 | 1 7 | MEMORY | 6 |MEMORY 1 7 |or PRESET 1 7 | or USER SAVED "JuCtrl CS" | | 8 | 7 | 1 8 | MEMORY | 7 |MEMORY 1 8 |or PRESET 1 8 | or USER SAVED "JuCtrl CS" | | 9 | 8 | 2 1 | MEMORY | 8 |MEMORY 2 1 |or PRESET 2 1 | or USER SAVED "JuCtrl CS" | | 10 | 9 | 2 2 | MEMORY | 9 |MEMORY 2 2 |or PRESET 2 2 | or USER SAVED "JuCtrl CS" | | 11 | 10 | 2 3 | MEMORY | 10 |MEMORY 2 3 |or PRESET 2 3 | or USER SAVED "JuCtrl CS" | | 12 | 11 | 2 4 | MEMORY | 11 |MEMORY 2 4 |or PRESET 2 4 | or USER SAVED "JuCtrl CS" | | 13 | 12 | 2 5 | MEMORY | 12 |MEMORY 2 5 |or PRESET 2 5 | or USER SAVED "JuCtrl CS" | | 14 | 13 | 2 6 | MEMORY | 13 |MEMORY 2 6 |or PRESET 2 6 | or USER SAVED "JuCtrl CS" | | 15 | 14 | 2 7 | MEMORY | 14 |MEMORY 2 7 |or PRESET 2 7 | or USER SAVED "JuCtrl CS" | | 16 | 15 | 2 8 | MEMORY | 15 |MEMORY 2 8 |or PRESET 2 8 | or USER SAVED "JuCtrl CS" | | 17 | 16 | 3 1 | MEMORY | 16 |MEMORY 3 1 |or PRESET 3 1 | or USER SAVED "JuCtrl CS" | | 18 | 17 | 3 2 | MEMORY | 17 |MEMORY 3 2 |or PRESET 3 2 | or USER SAVED "JuCtrl CS" | | 19 | 18 | 3 3 | MEMORY | 18 |MEMORY 3 3 |or PRESET 3 3 | or USER SAVED "JuCtrl CS" | | 20 | 19 | 3 4 | MEMORY | 19 |MEMORY 3 4 |or PRESET 3 4 | or USER SAVED "JuCtrl CS" | | 21 | 20 | 3 5 | MEMORY | 20 |MEMORY 3 5 |or PRESET 3 5 | or USER SAVED "JuCtrl CS" | | 22 | 21 | 3 6 | MEMORY | 21 |MEMORY 3 6 |or PRESET 3 6 | or USER SAVED "JuCtrl CS" | | 23 | 22 | 3 7 | MEMORY | 22 |MEMORY 3 7

|or PRESET 3 7 | or USER SAVED "JuCtrl CS" || 24 | 23 | 3 8 | MEMORY | 23 |MEMORY 3 8 |or PRESET 3 8 | or USER SAVED "JuCtrl CS" || 25 | 24 | 4 1 | MEMORY | 24 |MEMORY 4 1 |or PRESET 4 1 | or USER SAVED "JuCtrl CS" || 26 | 25 | 4 2 | MEMORY | 25 |MEMORY 4 2 |or PRESET 4 2 | or USER SAVED "JuCtrl CS" || 27 | 26 | 4 3 | MEMORY | 26 |MEMORY 4 3 |or PRESET 4 3 | or USER SAVED "JuCtrl CS" || 28 | 27 | 4 4 | MEMORY | 27 |MEMORY 4 4 |or PRESET 4 4 | or USER SAVED "JuCtrl CS" || 29 | 28 | 4 5 | MEMORY | 28 |MEMORY 4 5 |or PRESET 4 5 | or USER SAVED "JuCtrl CS" || 30 | 29 | 4 6 | MEMORY | 29 |MEMORY 4 6 |or PRESET 4 6 | or USER SAVED "JuCtrl CS" || 31 | 30 | 4 7 | MEMORY | 30 |MEMORY 4 7 |or PRESET 4 7 | or USER SAVED "JuCtrl CS" || 32 | 31 | 4 8 | MEMORY | 31 |MEMORY 4 8 |or PRESET 4 8 | or USER SAVED "JuCtrl CS" || 33 | 32 | 5 1 | MEMORY | 32 |MEMORY 5 1 |or PRESET 5 1 | or USER SAVED "JuCtrl CS" || 34 | 33 | 5 2 | MEMORY | 33 |MEMORY 5 2 |or PRESET 5 2 | or USER SAVED "JuCtrl CS" || 35 | 34 | 5 3 | MEMORY | 34 |MEMORY 5 3 |or PRESET 5 3 | or USER SAVED "JuCtrl CS" || 36 | 35 | 5 4 | MEMORY | 35 |MEMORY 5 4 |or PRESET 5 4 | or USER SAVED "JuCtrl CS" || 37 | 36 | 5 5 | MEMORY | 36 |MEMORY 5 5 |or PRESET 5 5 | or USER SAVED "JuCtrl CS" || 38 | 37 | 5 6 | MEMORY | 37 |MEMORY 5 6 |or PRESET 5 6 | or USER SAVED "JuCtrl CS" || 39 | 38 | 5 7 | MEMORY | 38 |MEMORY 5 7 |or PRESET 5 7 | or USER SAVED "JuCtrl CS" || 40 | 39 | 5 8 | MEMORY | 39 |MEMORY 5 8 |or PRESET 5 8 | or USER SAVED "JuCtrl CS" || 41 | 40 | 6 1 | MEMORY | 40 |MEMORY 6 1 |or PRESET 6 1 | or USER SAVED "JuCtrl CS" || 42 | 41 | 6 2 | MEMORY | 41 |MEMORY 6 2 |or PRESET 6 2 | or USER SAVED "JuCtrl CS" || 43 | 42 | 6 3 | MEMORY | 42 |MEMORY 6 3 |or PRESET 6 3 | or USER SAVED "JuCtrl CS" || 44 | 43 | 6 4 | MEMORY | 43 |MEMORY 6 4 |or PRESET 6 4 | or USER SAVED "JuCtrl CS" || 45 | 44 | 6 5 | MEMORY | 44 |MEMORY 6 5 |or PRESET 6 5 | or USER SAVED "JuCtrl CS" || 46 | 45 | 6 6 | MEMORY | 45 |MEMORY 6 6 |or PRESET 6 6 | or USER SAVED "JuCtrl CS" || 47 | 46 | 6 7 | MEMORY | 46 |MEMORY 6 7 |or PRESET 6 7 | or USER SAVED "JuCtrl CS" || 48 | 47 | 6 8 | MEMORY | 47 |MEMORY 6 8 |or PRESET 6 8 | or USER SAVED "JuCtrl CS" || 49 | 48 | 7 1 | MEMORY | 48 |MEMORY 7 1 |or PRESET 7 1 | or USER SAVED "JuCtrl CS" || 50 | 49 | 7 2 | MEMORY | 49 |MEMORY 7 2 |or PRESET 7 2 | or USER SAVED "JuCtrl CS" || 51 | 50 | 7 3 | MEMORY | 50 |MEMORY 7 3 |or PRESET 7 3 | or USER SAVED "JuCtrl CS" || 52 | 51 | 7 4 | MEMORY | 51 |MEMORY 7 4 |or PRESET 7 4 | or USER SAVED "JuCtrl CS" || 53 | 52 | 7 5 | MEMORY | 52 |MEMORY 7 5 |or PRESET 7 5 | or USER SAVED "JuCtrl CS" || 54 | 53 | 7 6 | MEMORY | 53 |MEMORY 7 6 |or PRESET 7 6 | or USER SAVED "JuCtrl CS" || 55 | 54 | 7 7 | MEMORY | 54 |MEMORY 7 7 |or PRESET 7 7 | or USER SAVED "JuCtrl CS" || 56 | 55 | 7 8 | MEMORY | 55 |MEMORY 7 8 |or PRESET 7 8 | or USER SAVED "JuCtrl CS" || 57 | 56 | 8 1 | MEMORY | 56 |MEMORY 8 1 |or PRESET 8 1 | or USER SAVED "JuCtrl CS" || 58 | 57 | 8 2 | MEMORY | 57 |MEMORY 8 2 |or PRESET 8 2 | or USER SAVED "JuCtrl CS" || 59 | 58 | 8 3 | MEMORY | 58 |MEMORY 8 3 |or PRESET 8 3 | or USER SAVED "JuCtrl CS" || 60 | 59 | 8 4 | MEMORY | 59 |MEMORY 8 4 |or PRESET 8 4 | or USER SAVED "JuCtrl CS" || 61 | 60 | 8 5 | MEMORY | 60 |MEMORY 8 5 |or PRESET 8 5 | or USER SAVED "JuCtrl CS" || 62 | 61 | 8 6 | MEMORY | 61 |MEMORY 8 6 |or PRESET 8 6 | or USER SAVED "JuCtrl CS" || 63 | 62 | 8 7 | MEMORY | 62 |MEMORY 8 7 |or PRESET 8 7 | or USER SAVED "JuCtrl CS" || 64 | 63 | 8 8 | MEMORY | 63 |MEMORY 8 8 |or PRESET 8 8 | or USER SAVED "JuCtrl CS" || 65 | 64 | 1 1 | PRESET | 64 |PRESET 1 1 |or MEMORY 1 1 | or USER SAVED "JuCtrl CS" || 66 | 65 | 1 2 | PRESET | 65 |PRESET 1 2 |or MEMORY 1 2 | or USER SAVED "JuCtrl CS" || 67 | 66 | 1 3 | PRESET | 66 |PRESET 1 3 |or MEMORY 1 3 | or USER SAVED "JuCtrl CS" || 68 | 67 | 1 4 | PRESET | 67 |PRESET 1 4 |or MEMORY 1 4 | or USER SAVED "JuCtrl CS" || 69 | 68 | 1 5 | PRESET | 68 |PRESET 1 5 |or MEMORY 1 5 | or USER SAVED "JuCtrl CS" || 70 | 69 | 1 6 | PRESET | 69 |PRESET 1 6 |or MEMORY 1 6 | or USER SAVED "JuCtrl CS" || 71 | 70 | 1 7 | PRESET | 70 |PRESET 1 7 |or MEMORY 1 7 | or USER SAVED "JuCtrl CS" || 72 | 71 | 1 8 | PRESET | 71 |PRESET 1 8 |or MEMORY 1 8 | or USER SAVED "JuCtrl CS" || 73 | 72 | 2 1 | PRESET | 72 |PRESET 2 1 |or MEMORY 2 1 | or USER SAVED "JuCtrl CS" || 74 | 73 | 2 2 | PRESET | 73 |PRESET 2 2 |or MEMORY 2 2 | or USER SAVED "JuCtrl CS" || 75 | 74 | 2 3 | PRESET | 74 |PRESET 2 3 |or MEMORY 2 3 | or USER SAVED "JuCtrl CS" || 76 | 75 | 2 4 | PRESET | 75 |PRESET 2 4 |or MEMORY 2 4 | or USER SAVED "JuCtrl CS" || 77 | 76 | 2 5 | PRESET | 76 |PRESET 2 5 |or MEMORY 2 5 | or USER SAVED "JuCtrl CS" || 78 | 77 | 2 6 | PRESET | 77 |PRESET 2 6 |or MEMORY 2 6 | or USER SAVED "JuCtrl CS" || 79 | 78 | 2 7 | PRESET | 78 |PRESET 2 7 |or MEMORY 2 7 | or USER SAVED "JuCtrl CS" || 80 | 79 | 2 8 | PRESET | 79 |PRESET 2 8 |or MEMORY 2 8 | or USER SAVED "JuCtrl CS" || 81 | 80 | 3 1 | PRESET | 80 |PRESET 3 1 |or MEMORY 3 1 | or USER SAVED "JuCtrl CS" || 82 | 81 |

3 2 | PRESET | 81 |PRESET 3 2 |or MEMORY 3 2 | or USER SAVED "JuCtrl CS" | | 83 | 82 | 3 3 | PRESET | 82 |PRESET 3 3 |or MEMORY 3 3 | or USER SAVED "JuCtrl CS" | | 84 | 83 | 3 4 | PRESET | 83 |PRESET 3 4 |or MEMORY 3 4 | or USER SAVED "JuCtrl CS" | | 85 | 84 | 3 5 | PRESET | 84 |PRESET 3 5 |or MEMORY 3 5 | or USER SAVED "JuCtrl CS" | | 86 | 85 | 3 6 | PRESET | 85 |PRESET 3 6 |or MEMORY 3 6 | or USER SAVED "JuCtrl CS" | | 87 | 86 | 3 7 | PRESET | 86 |PRESET 3 7 |or MEMORY 3 7 | or USER SAVED "JuCtrl CS" | | 88 | 87 | 3 8 | PRESET | 87 |PRESET 3 8 |or MEMORY 3 8 | or USER SAVED "JuCtrl CS" | | 89 | 88 | 4 1 | PRESET | 88 |PRESET 4 1 |or MEMORY 4 1 | or USER SAVED "JuCtrl CS" | | 90 | 89 | 4 2 | PRESET | 89 |PRESET 4 2 |or MEMORY 4 2 | or USER SAVED "JuCtrl CS" | | 91 | 90 | 4 3 | PRESET | 90 |PRESET 4 3 |or MEMORY 4 3 | or USER SAVED "JuCtrl CS" | | 92 | 91 | 4 4 | PRESET | 91 |PRESET 4 4 |or MEMORY 4 4 | or USER SAVED "JuCtrl CS" | | 93 | 92 | 4 5 | PRESET | 92 |PRESET 4 5 |or MEMORY 4 5 | or USER SAVED "JuCtrl CS" | | 94 | 93 | 4 6 | PRESET | 93 |PRESET 4 6 |or MEMORY 4 6 | or USER SAVED "JuCtrl CS" | | 95 | 94 | 4 7 | PRESET | 94 |PRESET 4 7 |or MEMORY 4 7 | or USER SAVED "JuCtrl CS" | | 96 | 95 | 4 8 | PRESET | 95 |PRESET 4 8 |or MEMORY 4 8 | or USER SAVED "JuCtrl CS" | | 97 | 96 | 5 1 | PRESET | 96 |PRESET 5 1 |or MEMORY 5 1 | or USER SAVED "JuCtrl CS" | | 98 | 97 | 5 2 | PRESET | 97 |PRESET 5 2 |or MEMORY 5 2 | or USER SAVED "JuCtrl CS" | | 99 | 98 | 5 3 | PRESET | 98 |PRESET 5 3 |or MEMORY 5 3 | or USER SAVED "JuCtrl CS" | |100 | 99 | 5 4 | PRESET | 99 |PRESET 5 4 |or MEMORY 5 4 | or USER SAVED "JuCtrl CS" | |101 | 100 | 5 5 | PRESET | 100 |PRESET 5 5 |or MEMORY 5 5 | or USER SAVED "JuCtrl CS" | |102 | 101 | 5 6 | PRESET | 101 |PRESET 5 6 |or MEMORY 5 6 | or USER SAVED "JuCtrl CS" | |103 | 102 | 5 7 | PRESET | 102 |PRESET 5 7 |or MEMORY 5 7 | or USER SAVED "JuCtrl CS" | |104 | 103 | 5 8 | PRESET | 103 |PRESET 5 8 |or MEMORY 5 8 | or USER SAVED "JuCtrl CS" | |105 | 104 | 6 1 | PRESET | 104 |PRESET 6 1 |or MEMORY 6 1 | or USER SAVED "JuCtrl CS" | |106 | 105 | 6 2 | PRESET | 105 |PRESET 6 2 |or MEMORY 6 2 | or USER SAVED "JuCtrl CS" | |107 | 106 | 6 3 | PRESET | 106 |PRESET 6 3 |or MEMORY 6 3 | or USER SAVED "JuCtrl CS" | |108 | 107 | 6 4 | PRESET | 107 |PRESET 6 4 |or MEMORY 6 4 | or USER SAVED "JuCtrl CS" | |109 | 108 | 6 5 | PRESET | 108 |PRESET 6 5 |or MEMORY 6 5 | or USER SAVED "JuCtrl CS" | |110 | 109 | 6 6 | PRESET | 109 |PRESET 6 6 |or MEMORY 6 6 | or USER SAVED "JuCtrl CS" | |111 | 110 | 6 7 | PRESET | 110 |PRESET 6 7 |or MEMORY 6 7 | or USER SAVED "JuCtrl CS" | |112 | 111 | 6 8 | PRESET | 111 |PRESET 6 8 |or MEMORY 6 8 | or USER SAVED "JuCtrl CS" | |113 | 112 | 7 1 | PRESET | 112 |PRESET 7 1 |or MEMORY 7 1 | or USER SAVED "JuCtrl CS" | |114 | 113 | 7 2 | PRESET | 113 |PRESET 7 2 |or MEMORY 7 2 | or USER SAVED "JuCtrl CS" | |115 | 114 | 7 3 | PRESET | 114 |PRESET 7 3 |or MEMORY 7 3 | or USER SAVED "JuCtrl CS" | |116 | 115 | 7 4 | PRESET | 115 |PRESET 7 4 |or MEMORY 7 4 | or USER SAVED "JuCtrl CS" | |117 | 116 | 7 5 | PRESET | 116 |PRESET 7 5 |or MEMORY 7 5 | or USER SAVED "JuCtrl CS" | |118 | 117 | 7 6 | PRESET | 117 |PRESET 7 6 |or MEMORY 7 6 | or USER SAVED "JuCtrl CS" | |119 | 118 | 7 7 | PRESET | 118 |PRESET 7 7 |or MEMORY 7 7 | or USER SAVED "JuCtrl CS" | |120 | 119 | 7 8 | PRESET | 119 |PRESET 7 8 |or MEMORY 7 8 | or USER SAVED "JuCtrl CS" | |121 | 120 | 8 1 | PRESET | 120 |PRESET 8 1 |or MEMORY 8 1 | or USER SAVED "JuCtrl CS" | |122 | 121 | 8 2 | PRESET | 121 |PRESET 8 2 |or MEMORY 8 2 | or USER SAVED "JuCtrl CS" | |123 | 122 | 8 3 | PRESET | 122 |PRESET 8 3 |or MEMORY 8 3 | or USER SAVED "JuCtrl CS" | |124 | 123 | 8 4 | PRESET | 123 |PRESET 8 4 |or MEMORY 8 4 | or USER SAVED "JuCtrl CS" | |125 | 124 | 8 5 | PRESET | 124 |PRESET 8 5 |or MEMORY 8 5 | or USER SAVED "JuCtrl CS" | |126 | 125 | 8 6 | PRESET | 125 |PRESET 8 6 |or MEMORY 8 6 | or USER SAVED "JuCtrl CS" | |127 | 126 | 8 7 | PRESET | 126 |PRESET 8 7 |or MEMORY 8 7 | or USER SAVED "JuCtrl CS" | |128 | 127 | 8 8 | PRESET | 127 |PRESET 8 8 |or MEMORY 8 8 | or USER SAVED "JuCtrl CS" | ===== Project Status ===== 09/2012 || || --- Project Start [28 October 2011]: || --- 100% JuCtrl MBHP DIN, DOUT, LCD, ENC || --- 100% MBHP IIC MIDI Module (one extra MIDI IO for Juno) || --- 100% CC MIDI IN --->[Ju Control (MIDI CC to SYSEX Conversation)] --->MIDI OUT--->[Juno] || --- 100% Program Change (Sound Patch) via CS ENC || --- 100% Send Individual CS Controller Values to Juno (Juno IPR-Mode SYSEX, CC) || --- 100% Receive Individual Tone Parameters from Juno (Juno IPR-Mode SYSEX) || --- 100% Send All CS Tone Parameters to Juno (Juno APR-Mode Sysex) || --- 100% Receive All Tone Parameters from Juno(Juno APR-Mode Sysex) || --- 100% HW: Update Core8 >> PIC18F4620 (Need more Program Memory and SRAM for BLD-Mode Sysex Data) || --- 100% Bankstick (BS 1-8 = 8\*128 Tone Patches) || --- 100% ENVELOPE

functions (BTN F1-F4) || --- 100% Send Bankstick sysex-dump (Tone Backup) || --- V1.000 (09/2012) ||  
--- V1.001 (12/2012) >> JuCtrl MIDI IN: Channel Pressure (MIDI Aftertouch) enabled. || V =====  
Software ===== \* [[http://www.subf.net/midibox/JuCtrl/JuCtrlV100018F4620.zip]]  
(Outdated|09/2012) \* [[http://www.subf.net/midibox/JuCtrl/JuCtrlV1001PIC18F6420.zip]] (12/2012)  
===== Links ===== - [[http://midibox.org/forums/topic/16197-ju-control/]] -  
[[http://en.wikipedia.org/wiki/Roland\_Alpha\_Juno]] -  
[[http://www.vintagesynth.com/roland/ajuno1.php]]

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