

===== 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 Colour parameter directly at hand. Furthermore you can store all 128 Juno Tone Patches on Bankstick. =====

Functions ===== * Control every Juno Tone Parameter with an encoder or button * Control one parameter (IPR) or send all parameter at once (APR) * Store Juno patches (Tones) on Bankstick * Juno Tone parameter overview (via CS LCD & LED) * MIDI processing: CC to sysex conversation =====

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 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) ===== Project Status =====

30.08.2012 || || --- 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) || --- 75% ENVELOPE

functions (BTN F1-F4) || --- 13% Send Bankstick sysex-dump (Tone Backup) || V ===== Software

===== * Not Released yet ===== Links ===== -

[\[\[http://midibox.org/forums/topic/16197-ju-control/\]\]](http://midibox.org/forums/topic/16197-ju-control/) -

[\[\[http://en.wikipedia.org/wiki/Roland_Alpha_Juno\]\]](http://en.wikipedia.org/wiki/Roland_Alpha_Juno) -

[\[\[http://www.vintagesynth.com/roland/ajuno1.php\]\]](http://www.vintagesynth.com/roland/ajuno1.php)

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<http://www.midibox.org/dokuwiki/> - **MIDIbox**

Permanent link:

http://www.midibox.org/dokuwiki/doku.php?id=ju_control_roland_alpha_juno_control_panel_cs&rev=1346840501

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