

Gig Rack OSC Implementation DRAFT 9/1/16

General instructions. Any item that can be controlled through OSC must be assigned an OSC name. Once that has been done, the item will respond to OSC commands defined on that item. Items must have unique names. You cannot send a single message to multiple items. OSC addresses are subject to change

Widgets	Example name	OSC Address	First arg	Range	Second arg	Range	Example	Comments	Note
Knobs, Sliders, Drawbars, Expression pedals, etc	Knob1	/Knob1/SetValue	Float	0.0 - 1.0			/Knob1/SetValue 0.5	Set the knob value half way	Turning a knob manually will send this message out
	Knob1	/Knob1/GetValue	None				/Knob1/GetValue	Returns the current value	
Buttons, Toggles	Button1	/w/SetValue	Float	0.0, 1.0			/Button1/SetValue 1	Turn the button on	Pressing a button will send this message out
	Button1	/w/GetValue					/Button1/GetValue	Get the current on/off setting of the button	
VST/AU Plugins									
	Synth1	/Synth1/SetParam	Int	0 - ParameterCount - 1	Float	0.0 - 1.0	/Synth1/SetParam 3 0.5	Set parameter 3 of the plugin halfway	Changing the synth parameter directly will send out this message
	Synth1	/Synth1/GetParam	int	0 - ParameterCount - 1			/Synth1/GetParam 5	Get the value of the 5th parameter	
GigRack MIDI Plugin									
	M1	/M1/Midi	One to three int args	Each arg can have a value between 0 and 127				Send a MIDI channel message. If the MIDI plugin is connected to a VST synth, then the synth will receive these MIDI events	Refer to MIDI charts for specification of MIDI messages
	M1	/M1/NoteOn	Three args	Number, velocity, channel			/M1/NoteOn 60 64 1	(If second parameter is 0, then this behaves like a noteoff message	""
	M1	/M1/NoteOff	Three args	Number, release channel			/M1/NoteOff 60 64 1		
	M1	/M1/Note	Four args	Number, velocity, channel, duration			/M1/Note 60 64 1 250	Play middle C for 250 ms	
	M1	/M1/PB	Two args	Pitchbend, channel			/M1/PB 8192 1	Reset pitchbend to center	
	M1	/M1/CC	Three args	CC number, value, channel			/M1/CC 64 127	Turn sustain pedal on	See MIDI spec for CC numbers
	M1	/M1/AT	Two args	Aftertouch, channel			/M1/AT 64	Aftertouch half way down	
	M1	/M1/PC	Two args	Program change, channel			/M1/PC 3	Switch to program change 3	
	M1	/M1/PP	Three args	Note number, pressure, channel			/M1/PP 60 64 1	Push note 60 down half way	
	M1	/M1/SetParam	Int	0 - ParameterCount - 1	Float	0.0 - 1.0		The MIDI Plugin has parameters for setting such things as transpose, keyboard range and so forth	
		/M1/GetParam	int	0 - ParameterCount - 1					
Rackspace control									
		/GigRack/SwitchToRack	int	Desired rack number indexed from 0					
		/RackSpace/SetVariation	int	Switch to a variation within a rack, indexed from 0					