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📄 06-13-2012, 04:36 PM						# <u>1</u>
John Moderator					Join Dat Posts: 3	te: Jan 2009 3,007
📃 Casio SK-1 MIDI Retr	ofit Guide					
Step #0: Read the UM	R2 user manual! You	u can download it from the U	IMR2 product page.			
Always remove batterio	es and disconnect ar	ny power supply from the SK	X-1 before wiring activity.			
1. (VERY IMPORTAN	T) Connect Matrix	Polarity Jumper				
Connect the UMR2 Mat	rix Polarity Jumper f	or the "Active High" setting.	You can do this by soldering	g a small piece of wir	re as show	wn.

+ -•+• • POL

2. Power and MIDI: Wiring and Test

Connect the UMR2 "DC IN" terminals and MIDI terminals as shown in the diagram. (Note: some users have suggested a series diode in the DC IN "+" connection to allow the UMR2 to reliably power down in sync with the host.)

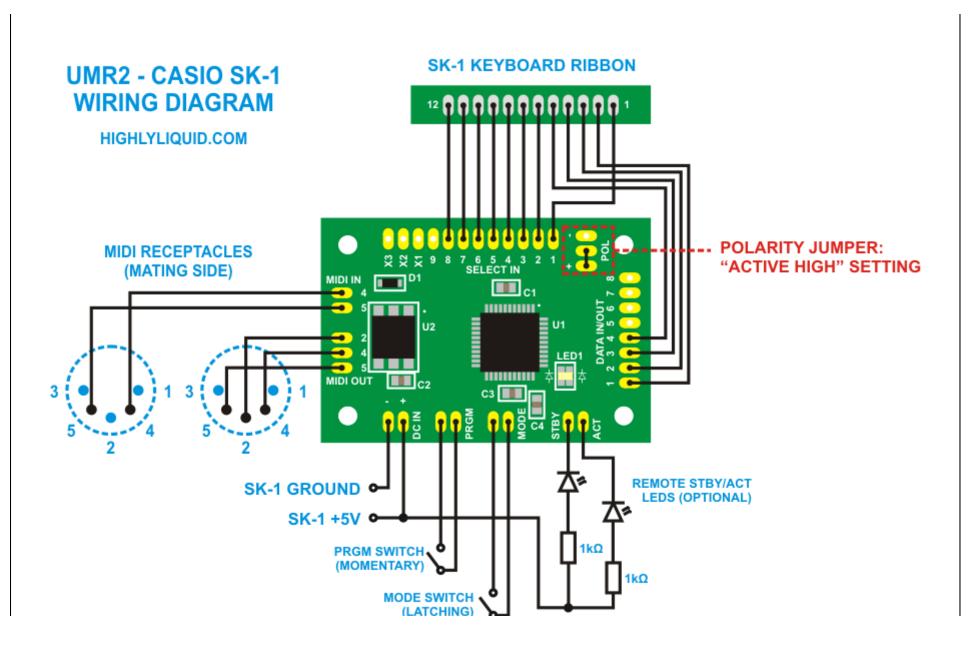
With the host keyboard powered on, test the MIDI signal path by making the following connections:

MIDI Controller MIDI Out -> UMR2 MIDI In UMR2 MIDI Out -> Sound Module MIDI In

Test the UMR2 "software MIDI thru" by attempting to control the sound module with the MIDI controller. This confirms that the MIDI and power wiring are correct.

3. Matrix and Switch Wiring

Complete the matrix wiring and PRGM and MODE switch wiring as shown in the diagram.



Host ground and +5V locations:



Host keyboard ribbon location:



4. UMR2 Setup Procedure

Complete the UMR2 Setup Procedure as described in the UMR2 user manual. This allows the UMR2 to "learn" the keyboard switch matrix configuration of the host, and also sets the MIDI channel and note range.

5. Post Feedback

Post a reply to let us know how this worked for you. 🙂

Last edited by John; 02-26-2014 at 12:34 AM.

📄 06-13-2012, 04:39 PM

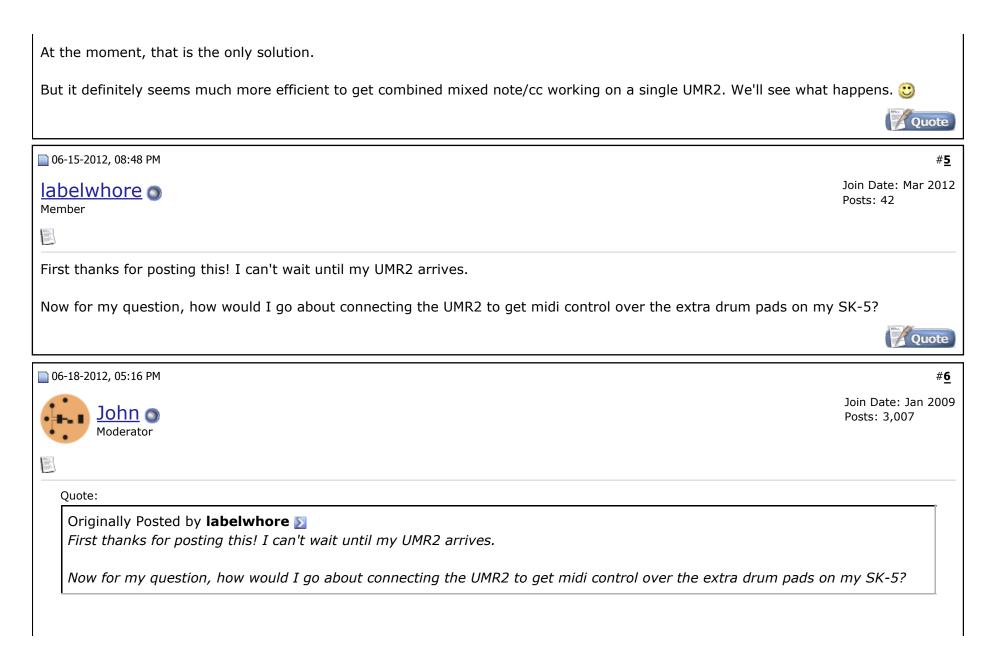


Join Date: Jan 2009 Posts: 3,007

Quote

#<u>2</u>

something like that?	
Last edited by John; 06-13-2012 at 04:43 PM.	Quote
06-14-2012, 07:59 PM	# <u>3</u>
<u>skippy76901</u> 💿 Junior Member	Join Date: Jun 2012 Posts: 1
That would be great. I thought I was going to have to buy 2 and use one to control the	preset buttons with midi notes.
	Quote
06-14-2012, 08:21 PM	# 4
06-14-2012, 08:21 PM John Moderator	# 4 Join Date: Jan 2009 Posts: 3,007
John Moderator	– Join Date: Jan 2009
John Moderator	– Join Date: Jan 2009
John Moderator	– Join Date: Jan 2009
John 💿	– Join Date: Jan 2009

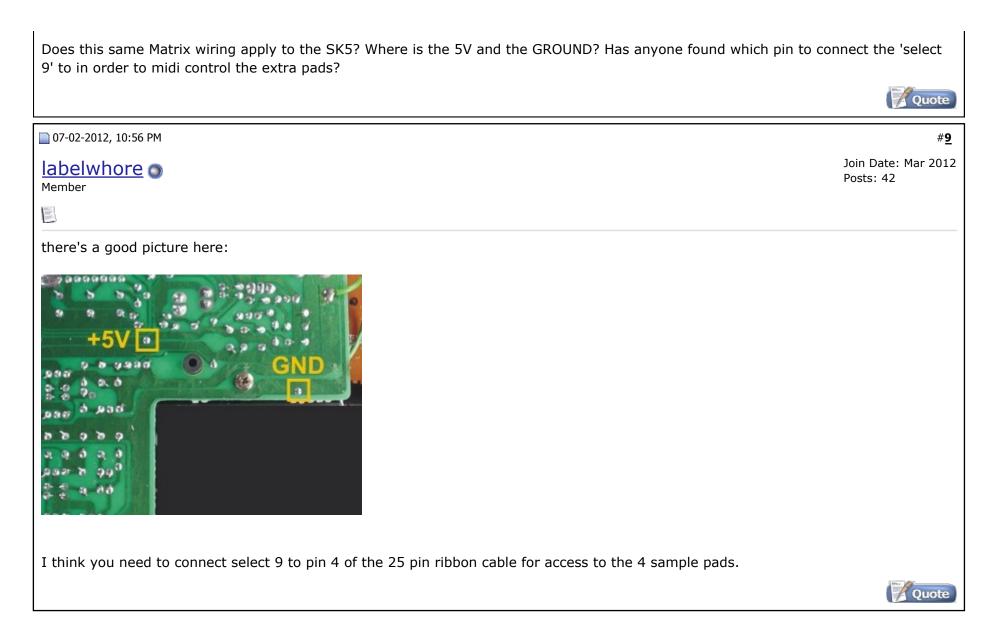


Ouote

The pads on the SK-5 share the same data lines as the keyboard.

For now, anyway, the UMR2 can support up to 9 select lines. So it's just a matter of connecting the unused UMR2 select input (Select 9) to the select pin for the 4 pads you want to control. I forget the pin number at the moment--it's on the 25-pin control panel ribbon.

<u>7</u>
r 2012
uote
<u>8</u>
/ 2011



07-04-2012, 03:09 AM	# <u>10</u>
aldegra O Junior Member	Join Date: May 2011 Posts: 14
Ive installed the umr2 in my sk5 with the same matrix wiring as described in this thread for the sk1 and it's not funct have the 5v and the ground as described by the photo in the last post. Should the ground maybe go to the same sold green wire in that photo? (the letters 'GR' are printed on the board next that point).	
I've setup the umr2 three times according to the manuals instructions.	
Right now I can get the midi controller mode to work but only by turning the sk5 power off, disconnecting the batteries sk5 power switch on, then connecting the batteries. I think this works because the sk5 and the umr2 power up at the way.	
I've gotten the sound module mode to work twice when I first connected it to two different midi controllers. But after sk5 and turning it back on, it won't work with either in this mode. The red act light blinks with every note from the control are triggered on the keyboard.	
Thanks for the help so far, I'd really be thrilled if I could get this thing to function as a sound module.	
	Quote
07-05-2012, 10:32 PM	# <u>11</u>
John Moderator	Join Date: Jan 2009 Posts: 3,007
Quote:	

Originally Posted by aldegra 🔊

Ive installed the umr2 in my sk5 with the same matrix wiring as described in this thread for the sk1 and it's not functioning properly. I have the 5v and the ground as described by the photo in the last post. Should the ground maybe go to the same solder point as the green wire in that photo? (the letters 'GR' are printed on the board next that point).

I've setup the umr2 three times according to the manuals instructions.

Right now I can get the midi controller mode to work but only by turning the sk5 power off, disconnecting the batteries, turning the sk5 power switch on, then connecting the batteries. I think this works because the sk5 and the umr2 power up at the same time this way.

I've gotten the sound module mode to work twice when I first connected it to two different midi controllers. But after powering off the sk5 and turning it back on, it won't work with either in this mode. The red act light blinks with every note from the controller but no notes are triggered on the keyboard.

Thanks for the help so far, I'd really be thrilled if I could get this thing to function as a sound module.

Hi Aldegra,

Thanks for the trouble report. Let me create an "official" SK-5 install thread so that we can discuss these issues.

By the way, the green wire that you are referring to is the "case ground" for the SK-5. I have had better success using the logic ground instead.

📄 12-21-2012, 09:52 PM

<u>merics</u> Junior Member Join Date: Dec 2012 Posts: 2

Ouote

#12

Is it possible to get both midi in and midi out with the UMR2 and SK-1? The SK-1 would make a neat little midi keybo	ard.
	Quote
12-22-2012, 12:34 AM	# <u>13</u>
John Moderator	Join Date: Jan 2009 Posts: 3,007
Quote:	
Originally Posted by merics <i>Is it possible to get both midi in and midi out with the UMR2 and SK-1? The SK-1 would make a neat little midi ke</i>	eyboard.
Yes. 🙂 The UMR provides both MIDI in and out for the SK-1.	
	Quote
12-22-2012, 01:55 AM	# <u>14</u>
merics Junior Member	Join Date: Dec 2012 Posts: 2
Perfect! It will go nicely with my vostok as a sampler and keyboard.	
	Quote
12-22-2012, 03:23 PM	# <u>15</u>

John Moderator	Join Date: Jan 2009 Posts: 3,007
Quote:	
Originally Posted by merics <i>Perfect! It will go nicely with my vostok as a sampler and keyboard.</i>	
It would be really cool to see them playing together!	
	Quote
04-07-2013, 03:00 AM	# <u>16</u>
deathstarchris	Join Date: Apr 2009 Posts: 7
John,	
I have a question. Based on 4.1 in the user manual as refers to mode. If I wanted to run both modes at the same tim with 2 UMR2 modules? One hardwired as sound module mode and one hardwired as midi controller mode? I have a cr to try out. Thank you,	
DSC	
	Quote
04-09-2013, 10:45 PM	# <u>17</u>

John Moderator	Join Date: Jan 2009 Posts: 3,007
Quote:	,
Originally Posted by deathstarchris John,	
<i>I have a question. Based on 4.1 in the user manual as refers to mode. If I wanted to run both modes at the san</i> <i>do this with 2 UMR2 modules? One hardwired as sound module mode and one hardwired as midi controller mod</i> <i>crazy idea I want to try out.</i> <i>Thank you,</i>	
DSC	
Hi Chris,	
Interesting idea, and good question. 🙂 I haven't tested such a setup, but I think it could work. One issue is that the sound module (MIDI input) will likely trigger activity on the UMR2 acting as a MIDI controller (MIDI output). So if the I don't see any reason why the two units can't coexist.	-
	Quote
04-10-2013, 01:07 AM	# <u>18</u>
deathstarchris	Join Date: Apr 2009 Posts: 7
Quote:	

Originally Posted by John D	
Hi Chris,	
Interesting idea, and good question. 🙂 I haven't tested such a setup, but I think it could work. One issue acting as a sound module (MIDI input) will likely trigger activity on the UMR2 acting as a MIDI controller that is not a problem, I don't see any reason why the two units can't coexist.	
Thank you John, I will let you know what I come up with.🙂	
	Quote
04-11-2013, 03:21 AM	# <u>19</u>
gmeredith Sunior Member	Join Date: Mar 2013 Posts: 26
If that were the case, the MIDI OUT UMR2 would be acting as a pseudo "MIDI THRU". It should work, so long MIDI OUT/THRU port of the MIDI IN UMR2 at the same time. Otherwise you will get 2 sets of MIDI data repli incoming data going into the MIDI IN UMR2 and coming out it's MIDI THRU port, and another same set comin UMR2's OUT port, being triggered by the MIDI IN activity on the key matrix. A simple switch should be able to of these PORTS at will.	cated - one set from the ng out of the MIDI OUT
Cheers, Graham	
	Quote
04-26-2013, 09:31 PM	# <u>20</u>
S*N*A*F*U*B*A*R Junior Member	Join Date: Mar 2013 Posts: 1

Cc i/o	
Quote:	
Originally Posted by John With a future UMR2 firmware version, I'd like to add the possibility of CC I/O for the SK interested in something like that?	<i>2-1 control panel buttons. Anyone</i>
Hi John.	
I've followed the site for while and I've finally made up my mind to order a UMR2 or two. I	just have a couple questions:
Has the proposed CC I/O support been implemented yet? Will it be in the near future (shou	ld I wait to order)?
If not, is there any reason I couldn't use the UMR2's extra data lines to control the SK-1's b keyboard and buttons use the same 10x8 matrix, so it seems like almost everything should matrix.	-
	Quote
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