

DCB

Digital Communications Bus

Prior to MIDI, this was implemented on the Roland Jupiter-8 (some units) and Roland Juno-60

From Hyperreal:

From tmoravan@netcom.com Tue May 30 10:16:25 1995
 Date: Tue, 30 May 1995 03:57:58 -0700 (PDT)
 From: Tom Moravansky tmoravan@netcom.com
 To: rbcIII robot@crl.com
 Cc: analog analogue@hyperreal.com
 Subject: Re: DCB cable pinouts

Some folks have asked about the Roland DCB pinouts. Here is what I have from the Jupiter-8 service manual:

DCB Pin Configurations

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07	06	05	04	03	02	01
14	13	12	11	10	09	08

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(view from rear panel)

- 1 - Busy (receive)
- 2 - Data (receive)
- 3 - Clock (receive)
- 4 - Ground
- 5 - Busy (transmit)
- 6 - Data (transmit)
- 7 - Clock (transmit)
- 8 - unregistered
- 9 - VCA lower
- 10 - VCA upper
- 11 - VCF lower
- 12 - VCF upper
- 13 - VCO-2
- 14 - VCO-1

There were 2 different shapes of DCB cable and 2 different types. Early shape was a flat cable used to connect early OP-8 converters to the Jupiter-8's with the OC-8 interface installed. This was part # H146

Later cables used the D-sub shell.

Cable # H172 is a uni-directional cable with the signal flow indicated by the arrow on the connector.
Cable # H172 is wired up like this:

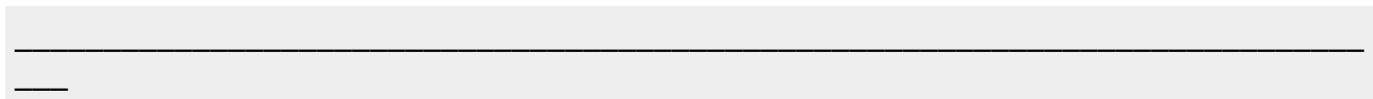
Receiver	Sender
1	5
2	6
3	7
4	4

Cable # H165 is bi-directional. The manual warns: "DCB Cable H165 is a bi-directional cable in which sent from the TX-terminal on a unit returns to the RX-terminal on the unit, causing regeneration." So, if you get regenerated don't say you weren't warned.

Receiver Sender

1	5
2	6
3	7
4	4
5	1
6	2
7	3
8	8
9	9
10	10
11	11
12	12
13	13
14	14

Hope this helps.



Tom Moravansky tmoravan@netcom.com

quiet electronics \\
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From squishy@bga.com Tue Jun 13 12:10:01 1995
Date: Tue, 13 Jun 1995 14:04:59 -0500
From: Drum Machine Wanker squishy@bga.com
To: analogue@hyperreal.com
Subject: Re: MD-8/DCB (pinout info)

I've done the unthinkable (for me), i've opened my DCB cable to finally find out the truth on the pinout. I tried building one awhile back without success, I now know why.

If you want to build your own, you'll need a piece of 15 conductor cable, 14 wires and 1 ground. The

ground is what I screwed up. You'll also need two Centronics 14 conductor connections.

The pinout...

The ground is connected to the front housing snap-in piece. Positions 8-14 are wired 1 to 1, that's the bottom row.

Below you'll see the pinout for the top row, positions 1-7.

p	p
o	o
s	s
i	i
t	t
i	i
o	o
n	n
1 wire 1	1 wire 5
2 wire 2	2 wire 6
3 wire 3	3 wire 7
4 wire 4	4 wire 4
5 wire 5	5 wire 1
6 wire 6	6 wire 2
7 wire 7	7 wire 3

Hope this helps.

Vince.

Squishy Records

From tmoravan@netcom.com Wed Jun 14 11:49:55 1995

Date: Wed, 14 Jun 1995 04:34:38 -0700 (PDT)

From: Tom Moravansky tmoravan@netcom.com

To: MARSHALLR@opsusa.sms.siemens.com

Cc: analog analogue@hyperreal.com

Subject: Re: Jupiter8: DCB vs DCIB?

Well, since there are a couple of open threads regarding Jupiter8/MD8

questions, I might as well jump in with my own.....

I have a Jupiter8 that has some sort of factory interface, but I don't think

it is DCB, since it doesn't have the typical 14 pin 'D' connector up near the

"Roland" logo. Rather it has a 20 pin IDC ribbon connector w/ a slide switch

Links:

<http://www.chd-el.cz/index.php?id=93&lngid=en>

<http://www.chd-el.cz/index.php?id=312&lngid=en>

<http://mkv.itm.miun.se/personal/per/diy/DCB/DCB.html>

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