

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

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

(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:

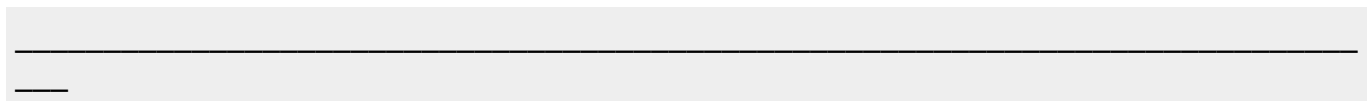
| Receiver | Sender |
|----------|--------|
| 1 | 5 |
| 2 | 6 |
| 3 | 7 |
| 4 | 4 |

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 \\

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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