

Type-C Plug to Type-C Receptacle Breakout Board



Table 1 - Connection details

C-Plug		Test Point / Disconnect Provision		C-Receptacle	
Pin No	Signal Name			Pin No	Signal Name
A4, B4, A9, B9	VBUS	Test Point 'VBUS R'	Test Point 'VBUS P'	A4, B4, A9, B9	VBUS
		Bridge VBUS with straight link or current measurement loop			
A7 (B7 no connect)	D-	Test Point 'USB Data D-' plus associated GND test point		A7, B7	D-
A6 (B6 no connect)	D+	Test Point 'USB Data D+' plus associated GND test point		A6, B6	D+
A1, B1, A12, B12	GND	Test Point 'GND' x 3		A1, B1, A12, B12	GND
A5	CC	Test Point 'CC R' plus associated GND test point	Test Point 'CC P' plus associated GND test point	A5	CC1
		Bridge CC with link header			
B5	VCONN	Test Point 'VCONN R' plus associated GND test point	Test Point 'VCONN P' plus associated GND test point	B5	CC2
		Bridge VCONN with link header			
A8	SBU1	Test Point 'SBU1 R' plus associated GND test point	Test Point 'SBU1 P' plus associated GND test point	SBU1	A8
		Bridge SBU1 with link header			
B8	SBU2	Test Point 'SBU2 R' plus associated GND test point	Test Point 'SBU2 P' plus associated GND test point	SBU2	B8
		Bridge SBU2 with link header			
A2	TX1+	Direct connection		A2	TX1+
A3	TX1-	Direct connection		A3	TX1-
B11	RX1+	Direct connection		B11	RX1+
B10	RX1-	Direct connection		B10	RX1-
B2	TX2+	Direct connection		B2	TX2+
B3	TX2-	Direct connection		B3	TX2-
A11	RX2+	Direct connection		A11	RX2+
A10	RX2-	Direct connection		A10	RX2-
Shield	S	Direct connection		S	Shield

Note 1: For convenience the signal names assume that the connector is the normal way up. If the connector is flipped then CC and VCONN swap places with SBU1 and SBU2 respectively.

Note 2: Bridges should normally be made unless required to be broken for engineering development purposes.