

NetDCU-ADP/TX1

NetDCUx

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1 LCD- Display Adapter

1.1 Overview

Display adapters make the connection between NetDCUx and commonly used LCD – Displays as easy as possible. Usual in trade display connectors could be simply added to complete the connection.

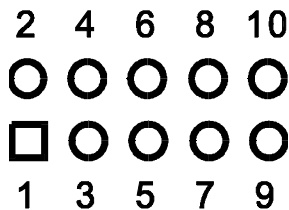
Note that the list of displays named for each adapter is not complete.

1.2 Counting of the Connector Pins

For One-Row-Connectors pin 1 is especially marked in the concerning front view figure and the counting of connectors is continuous.

All connections on the adapters, which prepared for Two-Row Connectors are treated as follow: a square pad marks pin 1 and the row with pin 1 contains all odd-numbered pins (1, 3, 5, 7, etc.), corresponding to this, the row without pin 1 contains all even-numbered pins (2, 4, 6, 8, etc.).

Figure 1.1: Example for counting of connector pins



2 Hitachi TFT Display Adapter

2.1 Adapter NetDCU- ADP/TX1

2.1.1 Assembly

Figure 2.1 shows assembly of the NetDCU- ADP/TX1 adapter. The size is 50mm x 25 mm. Table 2.1 shows function and design of the components listed.

Figure 2.1: Front view of NetDCU- ADP/TX1

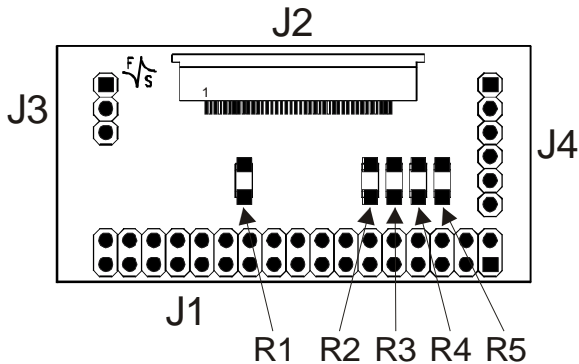


Table 2.1: Connector description

Description	Remarks
Input connector J1	Spacing 2.54 mm
Output connector J2 *	Pitch 0.50 mm
CFL connector J3	Spacing 2.54 mm
Touchpanel connector J4	Spacing 2.54 mm
Configuration jumpers R1 – R5	Type 1206

* Bottom contact type

2.1.2 Connecting Table

The input connector J1 of adapter NetDCU-ADP/TX1 can be directly plugged into the LCD interface connector of NetDCUx. The LCD voltage V_{CC} (5V or 3.3V) is determined by hardware configuration of NetDCUx LCD interface. The reference for the output connector J2 is shown in the Table 2.2

Table 2.2: Connecting table

NetDCU-ADP/TX1			
PIN	Function		
	Input	Output	
	J1	J2 Type 1	J2 Type 2
1	GND	VDD	VDD
2	R1	VDD	VDD
3	R0	VDD	VDD
4	G5	VDD	VDD
5	G4	NC	NC
6	G3	DTMG	DTMG
7	G2	VSS	VSS
8	GND	DCLK	NC
9	B3	VSS	VSS
10	B2	NC	NC
11	B1	VSS	VSS
12	B0	B5	B5
13	G1	B4	B4

NetDCU-ADP/TX1			
PIN	Function		
	Input	Output	
	J1	J2 Type 1	J2 Type 2
14	G0	B3	B3
15	B5	VSS	VSS
16	B4	B2	B2
17	GND	B1	B1
18	NC	B0	B0
19	CLP	VSS	VSS
20	FRP	G5	G5
21	M	G4	G4
22	LIP	G3	G3
23	NC	VSS	VSS
24	GND	G2	G2
25	V _{CC}	G1	G1
26	NC	G0	G0
27	NC	VSS	VSS
28	GND	R5	R5
29	NC	R4	R4
30	NC	R3	R3
31	R2	VSS	VSS
32	R3	R2	R2
33	R4	R1	R1

NetDCU-ADP/TX1			
PIN	Function		
	Input	Output	
	J1	J2 Type 1	J2 Type 2
34	R5	R0	R0
35	-	NC (Vcom)*	NC
36	-	VSS	VSS
37	-	NC (X1)*	VSS
38	-	NC (Y1)*	DCLK
39	-	NC (X2)*	VSS
40	-	NC (Y2)*	VSS

* for displays with integrated touchpanel

Table 2.3: Connector J3

J3	
PIN	Function
1	VCFL
2	NC
3	GND

Table 2.4: Connector J4

J4	
PIN	Function
1	X1
2	Y2
3	X2
4	Y1
5	Vcom
6	GND

2.1.3 Specified Displays

Table 2.5 shows possible configurations for the LCD- Interface J2.

Table 2.5: Configuration jumpers

Display Type	Jumpers
Type 1	R1
Type 2	R2, R3, R4, R5

Table 2.6 shows a range of displays, which could connect to NetDCU-ADP/TX1.

Table 2.6: Specified Displays for NetDCU-ADP/TFT- UNI

Display	Configuration
TX14D11VM1CAA	Type 1
TX16D11VM2CAA	Type 1 (with Touchpanel)
TX18D16VM1CAA	Type 2
TX20D16VM2BAA	Type 2