ADS
Applied Data Systems, Inc.

AGC Cable Assembly

16 Bit Color Panel Interface Cable for Sharp LQ64D343

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1.0   CABLE ASSEMBLY

This cable is used to connect the 34 pin header connector on a Advanced Graphics Client Computer board to a LQ64D343 panel via a Quadrangle RT45-3 Cable and Connector kit. The table below describes how to connect the unterminated ribbon cable to a 34 pin Samtec 2mm ribbon cable and connector, which is plugged into the Bitsy.

Panel Data:
Vdd: 5V
VEE: None
18 bit TFT Color Display
VGA 640x480

2.0   SCHEMATIC DIAGRAM (WIRE TABLE)

Shaded area indicates pins connected with ribbon cable.

Panel Connector Pin	P1 Quadrangle Kit RT45-3 ADS #600000-1001A	P2 2mm ribbon cable and connector, 34 pin ADS#210070-00186 Samtec TCSD-17-S-12.00-01-N	Panel Signal Name
	1*		
31	2	32	UD
29	3	30	PNL_PWR
30	4	31	RL
27	5	28	BIAS
28	6	29	PNL_PWR
25	7	26	BLUE5
26	8	27	GND
23	9	24	BLUE3
24	10	25	BLUE4
21	11	22	BLUE1
22	12	23	BLUE2
19	13	20	GND
20	14	21	BLUE0
17	15	18	GREEN4
18	16	19	GREEN5
15	17	16	GREEN2
16	18	17	GREEN3
13	19	14	GREEN0
14	20	15	GREEN1
11	21	12	RED5

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Panel Connector Pin	P1 Quadrangle Kit RT45-3 ADS #600000-1001A	P2 2mm ribbon cable and connector, 34 pin ADS#210070-00186 Samtec TCSD-17-S-12.00-01-N	Panel Signal Name
12	22	13	GND
9	23	10	RED3
10	24	11	RED4
7	25	8	RED1
8	26	9	RED2
5	27	6	GND
6	28	7	RED0
3	29	4	HSYNC
4	30	5	VSYNC
1	31	2	GND
2	32	3	PIXCLK

* This is the identified pin on the Quadrangle cable connector ribbon interface. This does not match numbering labeled for Hirose connector.

3.0   BILL OF MATERIALS:

ITEM	QTY	ADS PART NO.	DESCRIPTION
1	1	210070-00186	34 Pin Samtec Connector, 2mm, TCSD-17-S-12.00-01-N
2	1	600000-1001A	Quadrangle 31 pin Molex Interface Connector Kit (RT45-3)

4.0   ASSEMBLY INSTRUCTIONS:

4.1   Crimp conductors from panel connector (Item 2) into the appropriate locations on the 34 pin IDC connector (Item 1) as shown in the wire table in Section 2. Ensure that the keys and pin 1 are properly oriented on both connectors.

4.2   Identify with part number using permanent adhesive label.

5.0   NOTES:

5.1   A Strain Relief may or may not be installed on Item 1 according to the application.

6.0   REVISION HISTORY

LTR	DESCRIPTION	DATE	APPROVAL
1	Initial Release	03/10/03	CM

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