



SGLT-0055

3U CompactPCI Rear Signal Transition Card

User Manual

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I. Introduction

This document describes the specifications and functionality of Tenta's Rear Signal Transition Card. This card provides I/O distribution for J2 signals to a cable ready connector.

The board form factor, physical dimension and backplane interface comply with Compact PCI Specification PICMG 2.0 R2.1.

II. Ordering Information

Part Number	Description
AS00055-01	Rear signal transition card, 3U
Options	
AW000xx-01	Cable, 100 pin SCSI to dual 50 pin header, 12 inch
815557	Terminal block, 50 pin

III. Specifications

A. Physical specifications

Criteria	Specifications
PCB Dimensions	100MM Height X 80MM Depth X 1.6MM Thickness
Form Factor	Plug in Euro card, 3U Height, 8 HP Width (1 slot), IEEE (1101.1, 101.10 and P1101.11)
Connectors	Metric 2.0mm grid, female connector type A is used for J2 (Signal distribution).
Panel	128.5mm Height X 20.32mm Depth X 2.5 mm Thickness.

B. Connector Specifications

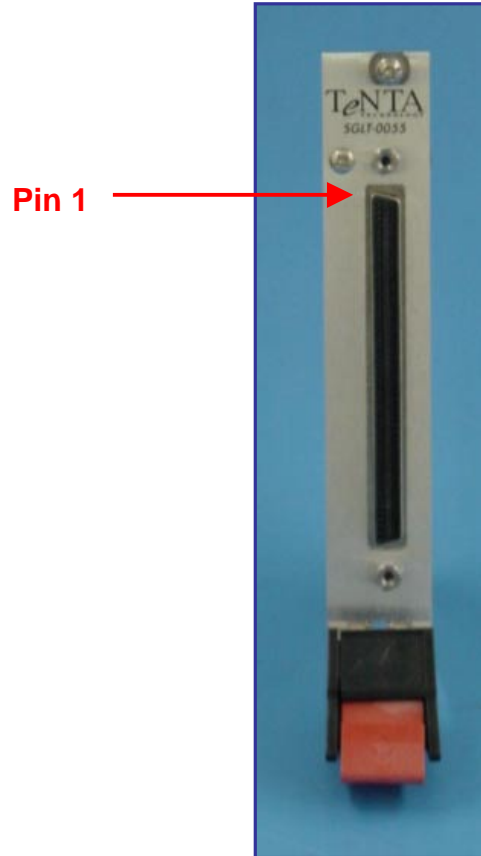
Card Connector	Description
AMP P/N: 749070-9	Receptacle Assembly, Shielded Vertical, Amplimite .050 Series

Mating Connectors

AMP P/N: 749111-8	Connector, ribbon cable
AMP P/N: 749621-9	Connector, ribbon cable

For more details, check Amp website <http://www.amp.com>.

C. Pin 1 Location



IV. Pinout Specifications Summary

Ref	cPCI 110	AMP 100 PIN	DIDO-0710	SCOM-080x	AIAO-0700
1	A1	A1	3.3V	N.C	3.3V
2	A2	--	Reserved	Reserved	Reserved
3	A3	--	Reserved	Reserved	Reserved
4	A4	A2	24V	24V	24V
5	A5	A3	DI/O 0	TX_A+	--
6	A6	A4	DI/O 5	TX_A-	--
7	A7	A5	DI/O 10	AGND	--
8	A8	A6	DI/O 15	RX_A+	AI29
9	A9	A7	Dig Com	RX_A-	Sig. Com
10	A10	A8	DI/O 20	AGND	AI 24
11	A11	A9	--	CK_A+	AI 19
12	A12	A10	--	CK_A-	AI 14
13	A13	A11	Dig Com	CK_B+	Sig. Com
14	A14	A12	DI/O 24	CK_B-	AI 9
15	A15	A13	DI/O 29	AGND	AI 4
16	A16	A14	DI/O34	RX_E+	AO 15
17	A17	A15	Dig Com	RX_E-	Sig. Com
18	A18	A16	DI/O 39	AGND	AO 10
19	A19	A17	DI/O 44	TX_A+	AO 5
20	A20	A18	--	TX_A-	AO 0
21	A21	A19	Reserved	Reserved	+15V
22	A22	A20	Reserved	Reserved	Reserved
23	B1	A21	3.3V	--	3.3V
24	B2	--	Reserved	Reserved	Reserved
25	B3	--	Reserved	Reserved	Reserved
26	B4	A22	24Vret	24Vret	24Vret
27	B5	A23	DI/O 1	TX_B+	--
28	B6	A24	DI/O 6	TX_B-	--
29	B7	A25	DI/O 11	AGND	--
30	B8	A26	DI/O 16	RX_B+	AI 30
31	B9	A27	Dig Com	RX_B-	Sig. Com
32	B10	A28	DI/O 21	AGND	AI 25

Ref	cPCI 110	AMP 100 PIN	DIDO-0710	SCOM-080x	AIAO-0700
33	B11	A29	--	--	AI 20
34	B12	A30	--	--	AI 15
35	B13	A31	Dig Com	--	Sig. Com
36	B14	A32	DI/O 25	--	AI 10
37	B15	A33	DI/O 30	AGND	AI 5
38	B16	A34	DI/O 35	RX_F+	AI 0
39	B17	A35	Dig Com	RX_F-	Sig. Com
40	B18	A36	DI/O 40	AGND	AO 11
41	B19	A37	DI/O 45	TX_F+	AO 6
42	B20	A38	--	TX_F-	AO 1
43	B21	A39	Reserved	Reserved	15Vcom
44	B22	A40	Reserved	Reserved	Reserved
45	C1	A41	3.3V	--	3.3V
46	C2	--	Reserved	Reserved	Reserved
47	C3	--	Reserved	Reserved	Reserved
48	C4	A42	24V	24V	24V
49	C5	A43	DI/O 2	TX_C+	--
50	C6	A44	DI/O 7	TX_C-	--
51	C7	A45	DI/O 12	AGND	--
52	C8	A46	DI/O 17	RX_C+	AI 31
53	C9	A47	Dig Com	RX_C-	Sig. Com
54	C10	A48	DI/O 22	AGND	AI 26
55	C11	A49	--	--	AI 21
56	C12	A50	--	--	AI 16
57	C13	A51	Dig Com	--	Sig. Com
58	C14	A52	DI/O 26	--	AI 11
59	C15	A53	DI/O 31	AGND	AI 6
60	C16	A54	DI/O 36	RX_G+	AI 1
61	C17	A55	Dig Com	RX_G-	Sig. Com
62	C18	A56	DI/O 41	AGND	AO 12
63	C19	A57	DI/O 46	TX_G+	AO 7
64	C20	A58	--	TX_G-	AO 2
65	C21	A59	Reserved	Reserved	(Spare)
66	C22	A60	Reserved	Reserved	Reserved

Ref	cPCI 110	AMP 100 PIN	DIDO-0710	SCOM-080x	AIAO-0700
67	D1	A61	5V	5V	5V
68	D2	--	Reserved	Reserved	Reserved
69	D3	--	Reserved	Reserved	Reserved
70	D4	A62	24Vret	(spare)	24Vret
71	D5	A63	DI/O 3	TX_D+	--
72	D6	A64	DI/O 8	TX_D-	--
73	D7	A65	DI/O 13	AGND	--
74	D8	A66	DI/O 18	RX_D+	--
75	D9	A67	Dig Com	RX_D-	Sig. Com
76	D10	A68	DI/O 23	AGND	AI 27
77	D11	A69	--	--	AI 22
78	D12	A70	--	--	AI 17
79	D13	A71	Dig Com	--	Sig. Com
80	D14	A72	DI/O 27	--	AI 12
81	D15	A73	DI/O 32	AGND	AI 7
82	D16	A74	DI/O 37	RX_H+	AI 2
83	D17	A75	Dig Com	RX_H-	Sig. Com
84	D18	A76	DI/O 42	AGND	AO 13
85	D19	A77	DI/O 47	TX_H+	AO 8
86	D20	A78	--	TX_H-	AO 3
87	D21	A79	Reserved	Reserved	-15V
88	D22	A80	Reserved	Reserved	Reserved
89	E1	A81	5V	5V	5V
90	E2	--	Reserved	Reserved	Reserved
91	E3	--	Reserved	Reserved	Reserved
92	E4	A82	Reserved	Reserved	Reserved
93	E5	A83	DI/O4	A0	--
94	E6	A84	DI/O 9	A1	--
95	E7	A85	DI/O 14	A2	--
96	E8	A86	DI/O 19	A3	--
97	E9	A87	Dig Com	A4	Sig. Com
98	E10	A88	--	AGND	AI 28
99	E11	A89	--	--	AI 23
100	E12	A90	--	--	AI 18

Ref	cPCI 110	AMP 100 PIN	DIDO-0710	SCOM-080x	AIAO-0700
101	E13	A91	Dig Com	B0	Sig. Com
102	E14	A92	DI/O 28	B1	AI 13
103	E15	A93	DI/O 33	B2	AI 8
104	E16	A94	DI/O 38	B3	AI 3
105	E17	A95	Dig Com	B4	Sig. Com
106	E18	A96	DI/O 43	AGND	AO 14
107	E19	A97	--	--	AO 9
108	E20	A98	--	--	AO 4
109	E21	A99	Reserved	Reserved	15Vcom
110	E22	A100	Reserved	Reserved	Reserved

V. Warranty

Tenta Technology warrants the original purchaser for two years from the date of delivery for any defect in the product, material or workmanship. Product should be used in suitable installation environment and for purposes it was designed. Any damages caused by natural disaster such as: fire, flood, wind and lightning are not covered. For more information, please contact Tenta Technology customer support (see locations on front page). Tenta Technology hardware and software are not intended for use in any manner when human life or safety is at risk and not for use in life support equipment.