

SPECIFICATIONS

STLITE-PCI-8T Satellite Series PCI Expansion System



**MEASUREMENT
COMPUTING™**

Revision 2, February, 2001

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1.1 STLITE-PCI-HOST

Typical for 25°C unless otherwise specified.

Power Consumption

+5V	375 mA max
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Features

Bridge	Industry-standard bridge. Intel 21150-AC. PCI 2.1, 32-bit, 33 MHz PCI. Provides support for delayed transactions, enabling memory read, I/O, and configuration read buffering
Connector	Shielded 80-pin SCSI D-type. Interfaces with Measurement Computing's <i>Satellite Series</i> bus expansion products.
Required Cable	STLITE-C-3. Three-foot shielded ribbon, 80-pin, D-type.

Interrupts

Interrupts	INTA#, INTB#, INTC#, INTD# routed to host PC.
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Environmental

Operating Temperature Range	0 to 70°C
Storage Temperature Range	-40 to 100°C
Humidity	0 to 95% non-condensing

Mechanical

Card dimensions	Universal PCI variable-length Short Card: 137.0mmL x 18.0mmW x 107.0mmH
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Connector Pin Out

Pin	Signal Name	Pin	Signal Name
1	GND	41	HST_S_AD00
2	HST_5V	42	HST_S_AD01
3	GND	43	HST_S_AD02
4	PWR_MON	44	HST_S_AD03
5	GND	45	HST_S_AD04
6	HST_S_SERR#	46	HST_S_AD05
7	GND	47	HST_S_AD06
8	HST_S_LOCK#	48	HST_S_AD07
9	GND	49	HST_S_CBE0#
10	HST_S_STOP#	50	HST_S_AD08
11	GND	51	HST_S_AD09
12	HST_S_DEVSEL#	52	HST_S_AD10
13	GND	53	HST_S_AD11
14	HST_S_TRDY#	54	HST_S_AD12
15	GND	55	HST_S_AD13
16	HST_S_FRAME#	56	HST_S_AD14
17	GND	57	HST_S_AD15
18	HST_S_IRDY#	58	HST_S_CBE1#
19	GND	59	HST_S_PAR
20	HST_S_PERR#	60	HST_S_CBE2#
21	GND	61	HST_S_AD16
22	HST_S_GNT#	62	HST_S_AD17
23	GND	63	HST_S_AD18
24	HST_S_REQ#	64	HST_S_AD19
25	GND	65	HST_S_AD20
26	HST_S_RST#	66	HST_S_AD21
27	GND	67	HST_S_AD22
28	HST_GPIO3	68	HST_S_AD23
29	HST_GPIO2	69	HST_S_CBE3#
30	HST_GPIO1	70	HST_S_AD24
31	HST_GPIO0	71	HST_S_AD25
32	INTB#_EXP	72	HST_S_AD26
33	GND	73	HST_S_AD27
34	INTC#_EXP	74	HST_S_AD28
35	GND	75	HST_S_AD29
36	INTA#_EXP	76	HST_S_AD30
37	GND	77	HST_S_AD31
38	INTD#_EXP	78	GND
39	GND	79	S_CLK+
40	S_CLK-	80	GND

1.2 STLITE-PCI-8T, STLITE -PCI-8T+

Typical for 25°C unless otherwise specified.

Features

Slots	8 PCI slots: 4 full-length PCI, 4 half-length PCI				
PCI Bus	Embedded industry standard bridge, Intel 21150-AC. 32 bit, 33 MHz.				
Power Supply	250W ATX Style				
Line Voltage Input	115VAC/10A or 230VAC/5A, switch selectable. 50/60Hz.				
Power Ratings	<i>Volts</i>	<i>Minimum Load</i>	<i>Maximum Load</i>	<i>Tolerance</i>	<i>Power</i> ¹
	+3.3V ²	0.2 Amps	14 Amps	±10%	46W
	+5V	2.0 Amps ⁴	27 Amps	±5%	135W
	+12V ³	0.2 Amps	9 Amps	±5%	108W
	-12V	0.0 Amps	0.5 Amps	±10%	6W
(1) Total Power not to exceed 250W (2) Backplane circuits consume 0.4 A from the +3.3V supply. (3) The fan and system monitoring hardware consume 0.3 A from the +12V supply. (4) For some ATX power supplies, if the minimum load is not drawn from the +5V supply, the -12V supply may be out of tolerance.					
Certification	UL CE CSA FCC Class A Approved				
Connector	Shielded 80-pin SCSI D-type. Interfaces with Measurement Computing's <i>Satellite Series</i> bus expansion products.				
Cable	STLITE-C-3. Three foot shielded ribbon, 80 pin D-type.				

System Monitoring

System monitoring features can be accessed via VB/C++ example programs and DLL provided.

A/D Converter	TLV2548, 8-channel, 12-bits. One per STLITE-PCI-8T, two per STLITE-PCI-8T+.
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Voltage Monitoring:	PCI voltages; +5V, +3.3V, +12V, and -12V Absolute Accuracy: ±2%
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Temperature Monitoring:

Sensor	Semiconductor type, Range: -55 to 150°C, Resolution: 0.03°C Abs. Accuracy: ±2.5°C max, ±0.9°C typ over entire Range
Backplane	One sensor located in the center of the Backplane
Slots (only available on STLITE-PCI-8T+)	One sensor positioned above each slot on a circuit card mounted inside the cover

Fan Monitoring:

Current	15 mA < I < 350 mA, 6% absolute accuracy. Fan currents of 15 mA or less indicate an OFF or OPEN condition.
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Environmental

Operating Temperature Range	0 to 50°C
Storage Temperature Range	-20 to 65°C
Operating Humidity	0 to 90% non-condensing
Storage Humidity	0 to 95% non-condensing

Mechanical

Enclosure	Portable Table-top design
Dimensions	15.25"L x 8.00"W x 6.33"H
Weight	8 lbs.
Construction	0.080" Aluminum case/cover. 0.040" Steel faceplate.
Cooling	Power supply fan plus one DC fan, 30 CFM typ

Connector Pin Out

PIN	SIGNAL NAME	PIN	SIGNAL NAME
1	GND	41	HST_AD00
2	PWR_MON	42	HST_AD01
3	GND	43	HST_AD02
4	PWR_MON	44	HST_AD03
5	GND	45	HST_AD04
6	HST_SERR#	46	HST_AD05
7	GND	47	HST_AD06
8	HST_LOCK#	48	HST_AD07
9	GND	49	HST_CBE0#
10	HST_STOP#	50	HST_AD08
11	GND	51	HST_AD09
12	HST_DEVSEL#	52	HST_AD10
13	GND	53	HST_AD11
14	HST_TRDY#	54	HST_AD12
15	GND	55	HST_AD13
16	HST_FRAME#	56	HST_AD14
17	GND	57	HST_AD15
18	HST_IRDY#	58	HST_CBE1#
19	GND	59	HST_PAR
20	HST_PERR#	60	HST_CBE2#
21	GND	61	HST_AD16
22	HST_GNT#	62	HST_AD17
23	GND	63	HST_AD18
24	HST_REQ#	64	HST_AD19
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34	INTC#_EXP	74	HST_AD28
35	GND	75	HST_AD29
36	INTA#_EXP	76	HST_AD30
37	GND	77	HST_AD31
38	INTD#_EXP	78	GND
39	GND	79	HST_CLK+
40	HST_CLK-	80	GND

Measurement Computing Corporation
 16 Commerce Boulevard,
 Middleboro, Massachusetts 02346

Tel: (508) 946-5100
 Fax: (508) 946-9500

E-mail: info@measurementcomputing.com
www.measurementcomputing.com