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Find the *Tracewell TTX400-3U-1S-24* at our website: *Click HERE*

Tracewell Systems

CompactPCI POWER SUPPLY

TTX400-3U-1S-48

400 Watt, 3U, 1 Slot, 48VDC Input, CompactPCI Power Supply

The TTX Series from Tracewell Power offers a wide variety of form factors, utilizing a new topology which provides excellent power density and high efficiency. The single slot, 3U package delivers 400 watts of continuous output at 60°C with 400LFM air flow and efficiency greater than 85%. Power supply cooling is achieved by a heat sink which is positioned directly in the air stream for optimum heat dissipation. Rugged design and construction has been verified by HALT (Highly Accelerated Life Test) testing. The TTX factory configurable control module easily lends itself to customized applications. Installation of optional IPMI functionality meets "Intelligent Platform Management Rev. 1.5"



Specifications

- 48 VDC input (range 36 - 72 VDC)
- Output Voltages:
  - V1: +5V@35A
  - V2: +3.3V@45A
  - V3: +12V@5A
  - V4: -12V@1A
- 400 Watt output maximum
- Efficiency exceeds 85%
- Hot Swap, N+1 redundant
- V1, V2, V3 Single wire active current share up to 8 supplies
- Optional IPMI meets Intelligent Platform Management Rev. 1.5
- Standard 47pin Positronic connector
- No minimum load on all outputs
- PICMG 2.11 R1.0 Compliant
- Remote sense on V1, V2, V3
- Reverse input polarity protection
- Over voltage, current, temperature protection

Safety & Emissions Features (pending)

- UL, cUL, CE
- FCC part 15, class A
- CISPR 22 (EN-55022) level A radiated
- GR-1089 conducted

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Output Voltage and Current

CONFIGURATION NUMBER	MAXIMUM TOTAL POWER	+5V	+3.3V	+12V	-12V
		V1	V2	V3	V4
TTX400-3U-1S-48	400W	35A	45A	5A	1A

Input Specifications

PARAMETER	CONDITIONS	MIN.	TYP.	MAX.	UNITS
Voltage DC		36	48	72	VDC
Holdup Time	Full Load		TBD		mS
	Half Load		5		mS
Efficiency	Nominal DC, full load		85		%
Inrush Current			TBD		Amps
Input Protection	Reverse Polarity				
No-Load Input Current			0.4		Amps

Output Specifications

PARAMETER	CONDITIONS	MIN.	TYP.	MAX.	UNITS
Minimum Load	On all outputs	0			Amps
Output Power				350	Watts
Output Regulation	Line, load, cross :5V, 3.3V, +12V		±1.5		%
	Line, load, cross : -12V		±3		%
PARD (ripple and noise)	20 MHz bandwidth 3.3V, 5V			50	mV*
	20 MHz bandwidth ±12V			120	mV*
Voltage Adjust Range	For 5V, 3.3V, ±12V outputs		2		%
Remote Sense	Compensates for distribution voltage drop		0.5		Volts
Current Share	Active current share		10		%
Overshoot/Turn On			0		%
Turn-On Delay	Input to power good		350		mS
Initial Setting Accuracy	For 5V, 3.3V, +12V outputs		1		%
Maximum Output Capacitance	Contact factory		TBD		uF

* mV pk-pk or 1%, whichever is greater

Feature Characteristics

PARAMETER	CONDITIONS	MIN.	TYP.	MAX.	UNITS
Switching Frequency			500		KHz
Output Voltage Remote Sense Range			0.5		Volts
Output Over-Voltage Protection			120		%
Output Over-Current Protection			120		%
Over-Temperature Shutdown			113		°C
Weight			1.01		Lbs.
Calculated MTBF			330K		Hrs.

Environmental Specifications

PARAMETER	CONDITIONS				
Operating Temperature	At full power	-40		60	°C
Storage Temperature		-40		85	°C
Humidity	Non-condensing		95		%

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Tracewell Systems

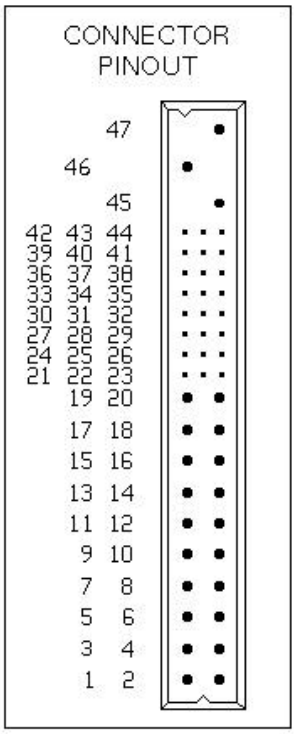
CompactPCI POWER SUPPLY

TTX400-3U-1S-48

Connector

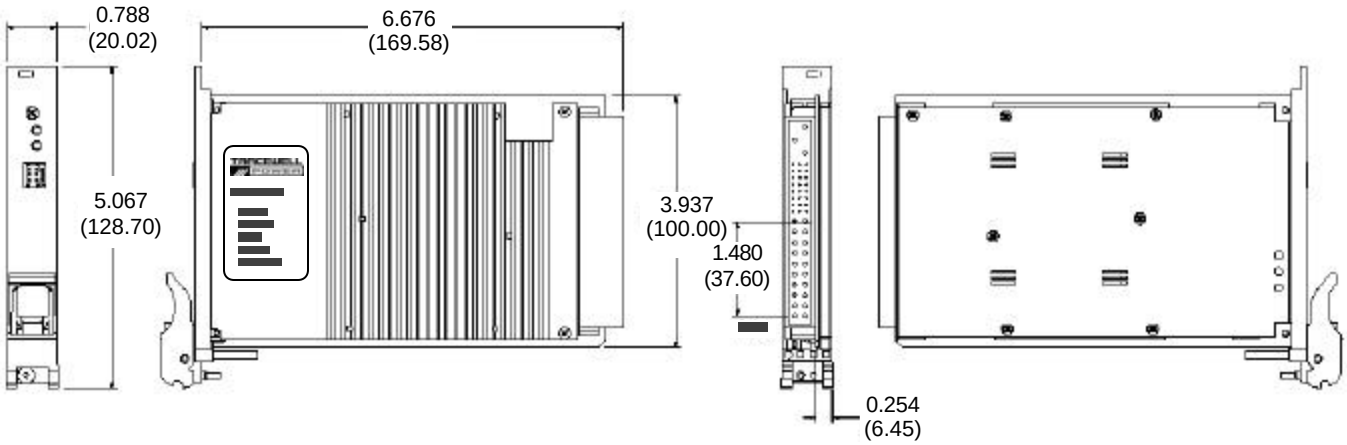
PIN #	FUNCTION
1	V1 Out
2	V1 Out
3	V1 Out
4	V1 Out
5	V1 & V2 RTN
6	V1 & V2 RTN
7	V1 & V2 RTN
8	V1 & V2 RTN
9	V1 & V2 RTN
10	V1 & V2 RTN
11	V1 & V2 RTN
12	V1 & V2 RTN
13	V2 Out
14	V2 Out
15	V2 Out
16	V2 Out
17	V2 Out
18	V2 Out
19	V3 RTN
20	V3 Out
21	V4 Out
22	Signal RTN
23	Reserved
24	V4 RTN
25	GA0

PIN #	FUNCTION
26	Reserved
27	EN# Enable
28	GA1
29	Reserved
30	V1 Remote Sense
31	GA2
32	Reserved
33	V2 Remote Sense
34	Sense RTN
35	V1 Current Share
36	V3 Remote Sense
37	IPMB_SCL
38	DEG# Degrade
39	INH# Inhibit
40	IPMB_SDA
41	V2 Current Share
42	FAL# Fail Signal
43	IPMB_PWR
44	V3 Current Share
45	Chassis Ground
46	+DC Input
47	-DC Input



Dimensions





Notes: 1) All dimensions are in inches (mm)
2) Keying per IEEE 1101.10

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Tracewell Systems

CompactPCI POWER SUPPLY

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Controls/Indicators

CONTROL/INDICATOR	CHARACTERISTIC
Green LED on	Input OK, Power supply is delivering power
Red LED on / Green LED on	Fault on secondary side, OVP, over temperature, current limiting
Red LED on / Green LED flash	DC input is present but the power supply is inhibited, or not enabled, or handle switch is not engaged
Degrade/Overtemp	Transitions low when unit is within 10°C of shutdown, Unit shuts down when internal temperature exceeds limits. Recycle power. Open collector
Enable	Active low input turns on power supply
Inhibit	Active low input turns off power supply
Fail	Active low output indicates fault condition. Open collector

Standards Compliance (pending)

APPROVAL	
UL, cUL, CE	
FCC Part 15, Class A	
CISPR 22 (EN-55022) level A radiated	
GR-1089 conducted	

IPMI Characteristics

MONITORED VARIABLE	NOTES
Input Voltage	Feed status
Temperature	Heatsink temperature
Output	Voltages
	Currents, V1, V2, V3
Identification	Tracewell Systems, Inc., TTX 400, Serial #
Current Share	3 load currents, V1, V2, V3

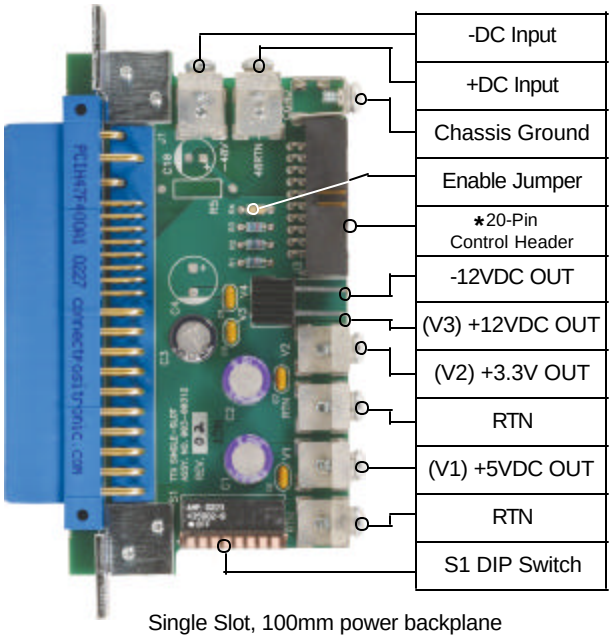
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Tracewell Systems

CompactPCI POWER SUPPLY

TTX400-3U-1S-48

Single Slot Power Backplane



Single Slot, 100mm power backplane
TTX-PB-1S-3U-S47-DC



PIN #	FUNCTION	PIN #	FUNCTION
1	V3 SHARE	11	V1 SENSE
2	FAL #	12	SENSE RTN
3	V2 SHARE	13	DEG #
4	RTN	14	V1 ADJ
5	V1 SHARE	15	V2 ADJ
6	INH #	16	V1
7	V3 SENSE	17	IPMB_SCL
8	EN #	18	IPMB_SDA
9	V2 SENSE	19	V3
10	SENSE RTN	20	IPMB_PWR

*Male AMP Connector: Hard Wired 102398-8
Ribbon Cable 499252-2

S1 DIP SWITCH



1 GA0	ON	low	5 V3	ON	local
	OFF	high		OFF	remote
2 GA1	ON	low	6 V2	ON	local
	OFF	high		OFF	remote
3 GA2	ON	low	7 V1	ON	local
	OFF	high		OFF	remote
4 INH #	ON	power off	8 RTN	ON	local
	OFF	power on		OFF	remote

TTX Family of Products - 24VDC, 48VDC, Power Backplanes



3U, 1 slot



3U, 2 slot



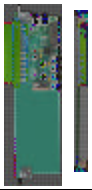
1 slot 3U backplane 47 pin connector



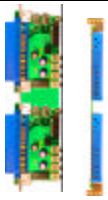
6U, 1 slot



6U, 2 slot



1 slot 6U backplane single 47 pin connector



1 slot 6Ubackplane dual 47pin connector

note: data subject to change without notice

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