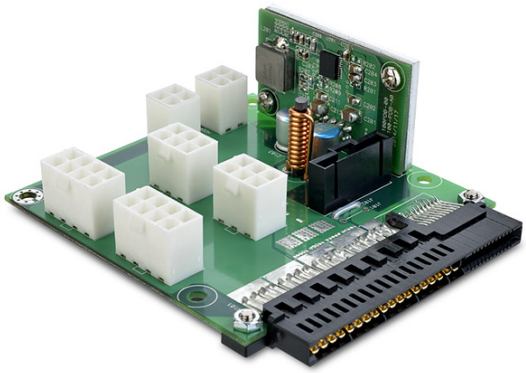
Power Distribution Board

1050 WATT / MULTI-OUTPUT

KEY FEATURES:

- 1050 Watts Output Power
- 12V, 5V, 12Vs outputs
- 12V Redundant, Hot Swap Modular Input
- Custom Form Factor 3.15” x 3.15” x 1.35”
- High Reliability in excess of 200,0000 Hours



MODEL	V1	V2	Standby (Vs)	
AR1100PDB-00	+12.0V	+5.0V	+12.0Vs	Voltage
	87.5A	8A	2A	Max Current
	120	50	120	Ripple/Noise (mVp-p)
	5%	5%	5%	Regulation
	Total Max Power is 1050W			

INPUT SPECIFICATIONS	
Input Voltage	12 Vdc
Input Frequency	N/A
Input Current	87.5A @ 12Vdc
Inrush Current	N/A
Input Protection	N/A
Leakage Currrent	N/A
Power Factor Correction	N/A

ENVIRONMENT SPECIFICATIONS	
Operating Temperature	0 ^{o}C to +50 ^{o}C
Storage Temperature	-40 ^{o}C to +85 ^{o}C
Cooling	System Cooling
MTBF	100 kHrs to MIL-HDBK-217F at 25 ^{o}C
Shock	Storage: 30G , 11ms, 1/2 sine wave pulse, 6 axis Operation: 5G , 11ms, 1/2 sine wave pulse, 6 axis
Vibration	2G rms, 5Hz to 500kHz, 3 axis

OUTPUT SPECIFICATIONS	
Setpoint Accuracy	+/- 1%
Total Output Power	1050W
Hold-up Time	N/A
Efficiency	90% typical
Minimum Load	No minimum load
Isolation (HiPot)	N/A
PSON	Turns on the outputs when signal is pulled low.
Power Good	Goes high (> 2.4V) within 100ms - 500ms of output in regulation. Goes low (<0.4V) at least 1ms before output out of regulation

PROTECTION	
Overvoltage	Latch-mode (Cycle AC input or ExtOff to reset)
Overpower	Latch-mode (Cycle AC input or ExtOff to reset)
Short Circuit	Latch-mode (Cycle AC input or ExtOff to reset)
Thermal	Latch-mode (Cycle AC input or ExtOff to reset)

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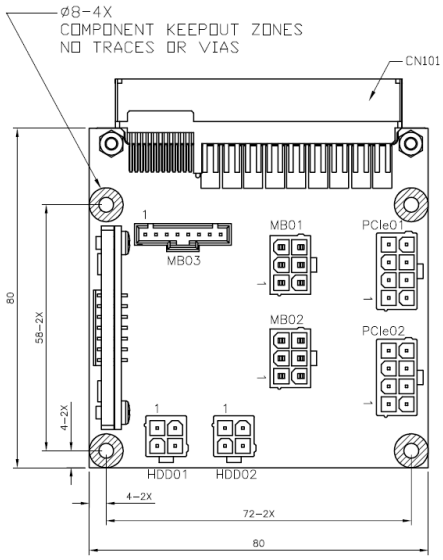
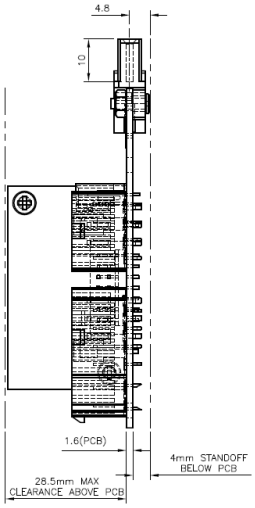
Typical Outline Drawing:

(REFER TO PRODUCT MECHANICAL DRAWING FOR COMPLETE INFORMATION)





CONNECTORS			
Pin	Signal	Pin	Signal
MB01-MB02			
1	COM	4	+12V
2	COM	5	+12V
3	COM	6	+12V
MB03			
1	CLK	5	PWOK
2	DATA	6	PSON#
3	N/C	7	N/C
4	COM	8	+12Vs
PCIe01-PCIe02			
1	+12V	5	COM
2	+12V	6	COM
3	+12V	7	COM
4	+12V	8	COM
HDD01-HDD02			
1	+12V	3	COM
2	+5V	6	COM