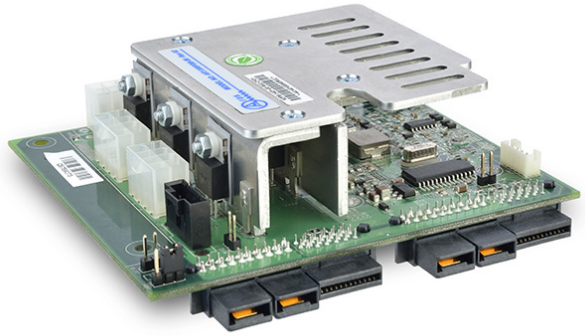
Power Distribution Board

650 WATT / MULTI-OUTPUT

KEY FEATURES:

- 650 Watts Output Power
- 12V, 5V, 3.3V, 5Vs outputs
- 12V Redundant, Hot Swap Modular Input
- Custom Form Factor 4” x 4” x 1.57”
- High Reliability in excess of 200,0000 Hours
- Individual output protections



MODEL	V1	V2	V3	V4	V5	V6	Standby (Vs)	
AR1100PDB-00	+12.0V	+12.0V	+12.0V	+12.0V	+5.0V	+3.3V	+5.0V	Voltage
	8A	12A	12A	19A	6A	8A	2A	Max Current
	120	120	120	120	50	50	50	Ripple/Noise (mVp-p)
	5%	5%	5%	5%	5%	5%	5%	Regulation

Total Max Power is 650W

INPUT SPECIFICATIONS	
Input Voltage	12 Vdc
Input Frequency	N/A
Input Current	54A @ 12Vdc
Inrush Current	N/A
Input Protection	N/A
Leakage Currrent	N/A
Power Factor Correction	N/A

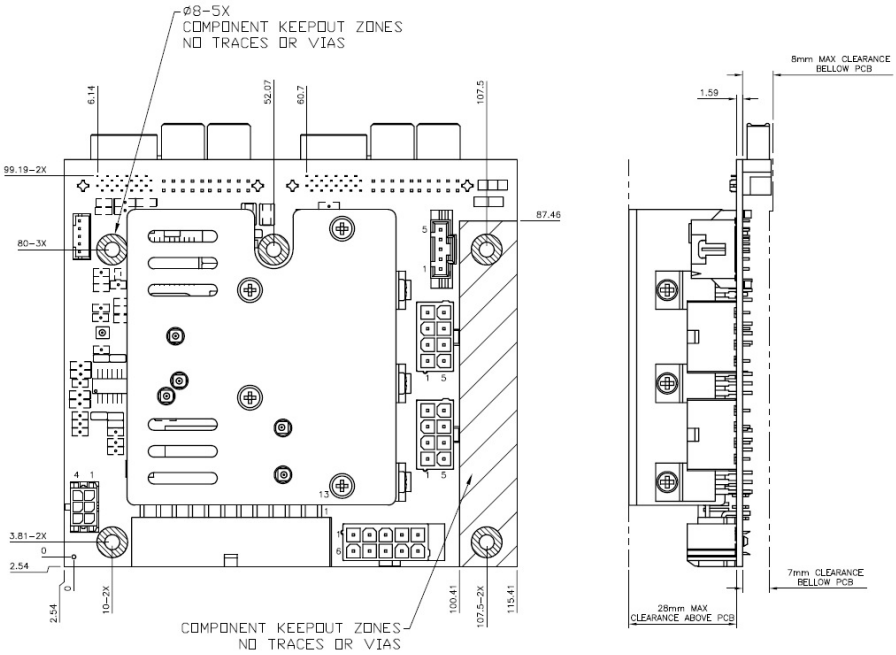
ENVIRONMENT SPECIFICATIONS	
Operating Temperature	0 ^{o}C to +50 ^{o}C
Storage Temperature	-40 ^{o}C to +85 ^{o}C
Cooling	System Cooling
MTBF	100 kHrs to MIL-HDBK-217F at 25 ^{o}C
Shock	Storage: 30G , 11ms, 1/2 sine wave pulse, 6 axis Operation: 5G , 11ms, 1/2 sine wave pulse, 6 axis
Vibration	2G rms,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

OUTPUT SPECIFICATIONS	
Setpoint Accuracy	+/- 1%
Total Output Power	650W
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)

Typical Outline Drawing:

(REFER TO PRODUCT MECHANICAL DRAWING FOR COMPLETE INFORMATION)



CONNECTORS			
Pin	Signal	Pin	Signal
PA1 (24pin ATX)			
1	+3.3V	13	+3.3V
2	+3.3V	14	N.C.
3	COM	15	COM
4	+5V	16	PS_ON#
5	COM	17	COM
6	+5V	18	COM
7	COM	19	COM
8	PWR_OK	20	N.C.
9	5Vs	21	+5V
10	+12V	22	+5V
11	+12V	23	+5V
12	+3.3V	24	COM
PA2-PA3 (8pin CPU)			
1	COM	5	+12V
2	COM	6	+12V
3	COM	7	+12V
4	COM	8	+12V
PA4			
1	PWR_OK	6	+12V
2	COM	7	+12V
3	COM	8	+12V
4	COM	9	+12V
5	COM	10	+5Vs
PA5			
1	+5V	4	+12V
2	+5V	5	+3.3V
3	COM	6	COM
PA6 (PMBus)			
1	CLK	4	COM
2	DATA	5	N/C
3	ALERT#		