Ver 1.3 3/25/2013 Edition www.jupiteri.com

## **Electrical Specifications**

Input/Output		
Inputs:		
Channel Count	8	
Input Voltage	Range: -32 VDC to 32 VDC	
	VIH high input: 3.0 V min	
	VIL low input: 1.0 V max	
Isolation*	500 VDC	
Input Resistance	4.7K	
Pulse Width	1.5mS min	
ESD Protection	4000V Human-Body Model (A114-A)	
Outputs:		
Channel Count	8	
Output Type	Low-Side MOSFET Switch, Current-Sink	
Switching Voltage	0 VDC - 30 VDC max	
Switching Current**	3.0 A max per channel	
Voltage Clamp	36 V nominal	
Isolation*	500 VDC	
Protection Function	Short Circuit & Thermal Shut-Down	
ESD Protection	2000V Human-Body Model (A114-A)	
Power		
USB		
Input voltage	4.7 to 5.25 VDC when configured	
Current Consumption	Active State: 135 mA max	
PC Interface		
Communication	USB 2.0 Full Speed	
Connector	Standard type B socket	

<sup>\*</sup> Input channels are compised of 2 banks of 4 inputs and output channels are comprised of 2 banks of 4 output MOSFET switches. A ground is provided for each bank. Isolation is measured between bank-to-bank and bank-to-ground. See JI-4040 block for isolation arrangement.

<sup>\*\*</sup> Maximum current capacity of each bank is 8 Amps.

## **Mechanical and Environmental Specifications**

Mechanical			
Dimensions	Board only:	3.9" x 0.5" x 4.7" (WxHxL)	
	Enclosure:	4.1" x 1.1" x 5.5" (WxHxL)	
Weight	Board only:	0.1 lbs	
	Enclosure:	0.9 lbs	
Environmental			
Operating Temperature	Board only:	0C to 70C	
	Enclosure:	0C to 60C	
Storage Temperature	-40C to 70C		

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