TRANS PACIFIC TECHNOLOGIES, INC.

68SR1 - 3U OpenVPX Solid-State Power Controller Relay Board Solid-State Power Switch Output; 3-Modules supporting up to 4-Channels each

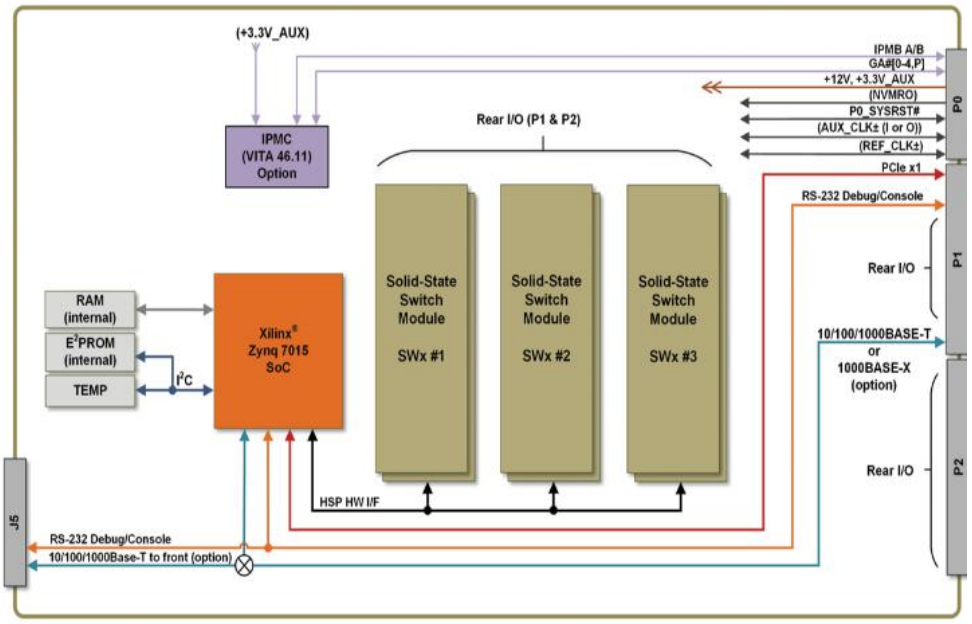
Specifications*

Motherboard	
Signal Logic Level:	Supports LVDS PCIe ver. 2.0 bus (x1)
Power (Motherboard):	12V (VS1) @ 225 mA (does not include load power) 3.3V_AUX @ 98 mA (max) Then add power for each individual SWx module
Temperature, Operating:	"C"= 0°C to +70°C, "H"= -40°C to +85°C (see part number) Each board is cycled from -40°C to +85°C (option "H")
Storage Temperature:	-55°C to +105°C
General Size:	Height: 3.94" / 100 mm (3U) Width: 0.8" / 20.3 mm (4HP) conduction-cooled with wedgelocks or front panel air/convection-cooled option or 1.0" / 25.4 mm (5HP) front panel air/convection-cooled option Depth: 6.3" / 160 mm deep
Weight (est.):	16 oz. (454 g) unpopulated (approx.) (conduction or air/convection-cooled) >> then add weight for each module (typically 2.5 oz. (71 g) each)

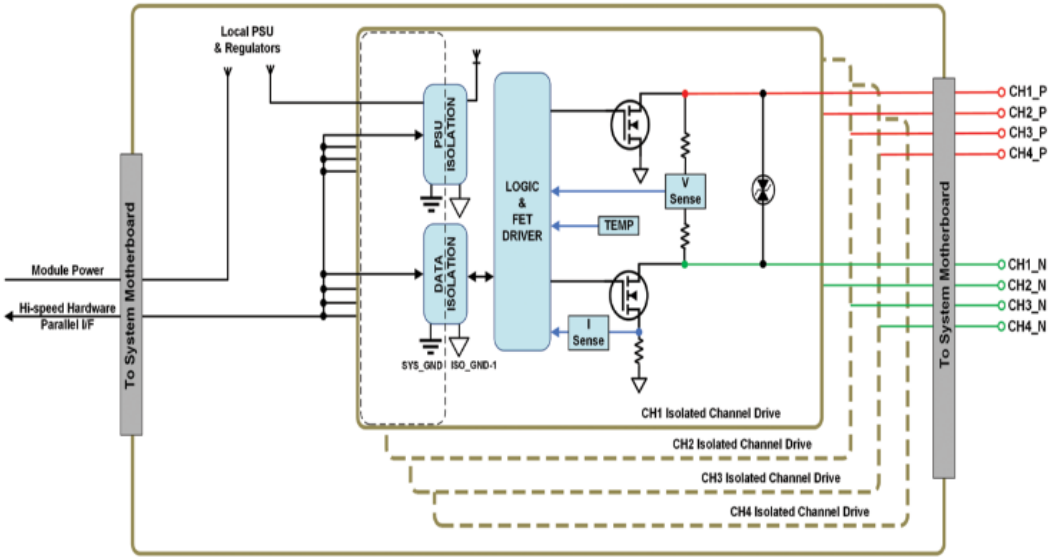
Solid-State Power Controller Relay Switch Module Details

Solid-State Power Switch Module(s)			
Module Characteristics Module Type	**Module ID:**	**Channels:**	**Description / Default Type, Voltage Range @ Current (max./Ch):**
	SW1	4	Normally Open (NO), Low-V, ±100V @ 6A continuous
	SW2	4	Normally Open (NO), High-V, ±200V @ 4A continuous
	SW3	2	Normally Closed (NC), Low-V, ±100V @ 3A continuous
Overvoltage Surge Protection:	15% Rated VDC max. (clamped)		
Output Mode Format: (programmable per channel)	Command Output Drive = OPEN or CLOSED		
Channel OPEN Output Impedance:	High-Z (>1 MΩ)		
Channel CLOSED Output Impedance:	< 0.1 Ω		
System Protection:	All output(s) are set to "Default" (at Power-ON and reset). No voltage transients on power-on or power-off.		
Load & Channel Protection:	Short circuit protected. Channel shuts "off" and a flag is set when current exceeds programmable overcurrent setting (max 6A) > 10 ms. Channel over-current reset by control/status register command.		
Open-Switch Voltage Measurement:	Voltage: LSB = 100 mV; Accuracy: ±1V		
Closed-Switch Current Measurement:	User can read current of each channel. Current: LSB = 20 mA; Accuracy: ±100 mA (tbd)		
Parallel Operation:	All channels (within the module) can be paralleled for current share. (tbd)		
Isolation:	Module power source (ISO-GND) and I/O to system ground is ≥500 VDC		
Power:	SW1: 12 VDC / 320 mA (max) (does not include source powered load) SW2: 12 VDC / 320 mA (max) (does not include source powered load) SW3: 12 VDC / 160 mA (max) (does not include source powered load)		
Weight (est.):	SW1: 2.5 oz. (71 g) SW2: 2.5 oz. (71 g) SW3: 2.5 oz. (71 g)		

Block Diagram



68SR1 SWx Solid-State Power Switch Module Simplified Block Diagram (4-CH. Module Shown)



For more information Contact TPT KK

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