



Xtreme/PSU

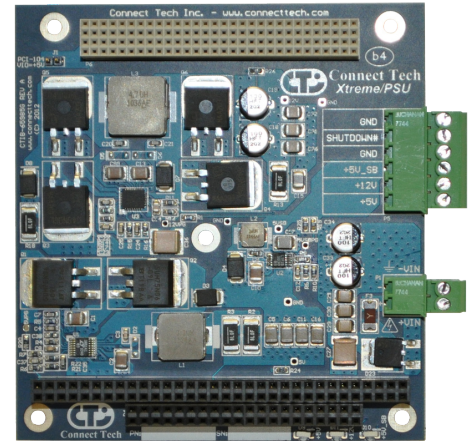
Connect Tech's Xtreme/PSU is a high efficiency, high powered PC/104 form factor power supply with extended temperature capabilities. Xtreme/PSU provides power to terminal block connectors and powers all of the PC/104 family expansion buses such as PC/104, PC/104-Plus, PCI-104, PCI/104-Express and PCIe/104.

Xtreme/PSU is a highly reliable power supply which provides 115W of total output power with +5V, +12V and +5V-Standby output voltages. It can be used as a stand-alone power supply to power any other embedded system, or used directly to power any PC/104 stack or single board computer (SBC).

The Xtreme/PSU has a wide input voltage range that accepts +6V to +36V DC and is specifically designed for use in a broad range of rugged applications including military, industrial, and air and ground vehicles.

Xtreme/PSU can be used in combination with Connect Tech's stackable CPU and expansion boards for a total design solution.

Product Name: Xtreme/PSU
Part Number: PSG001, PSG002, PSG003, PSG004, PSG005



FEATURES

- ✓ 115W total output power, +5V@10A, +12V@5A, +5V Standby@1A
- ✓ PC/104-Plus, PCI-104, PC/104, PCI/104-Express, PCIe/104 expansion
- ✓ Fully meets PC/104 component height requirements
- ✓ Uses latest generation highest efficiency power controllers, inductors, and MOSFETs
- ✓ Oversized MOSFETs for improved thermal performance (heat sinking not required)

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Specifications

Dimensions	PC/104 Standard 3.55" (90mm) x 3.775" (96mm)
Bus Expansion Options	
• PSG001:	PC/104-Plus (PCI & ISA)
• PSG002:	PC/104 (ISA Only)
• PSG003:	PCI-104 (PCI Only)
• PSG004:	PCIe/104 (PCI Express Only)
• PSG005:	PCI/104-Express (PCI Express & PCI)
• PSG006:	Embedded (No Bus Connectors)
Input	
• Power Requirements:	+6V to +36V DC
• Protection:	Reverse polarity protection and transient voltage suppression and series fuse
Output	
• Total Power	115W
• +5V	10A maximum continuous for full -40 to +85 range
• +12V	5A maximum continuous for full -40 to +85 range
• +5V Standby	1A maximum continuous for full -40 to +85 range
• Regulation	Less than 1%
• Protection	Overload protection and transient voltage suppression
• Efficiency	Up to 93%
Operating Temperature	-40°C to +85°C (-40°F to 185°F)
Connectors	3.5mm pitch standard terminal block header and mating plug
Optional:	Screw locking flanges for shock and vibration applications
Warranty and Support	Lifetime warranty and free technical support

RoHS

Specifications subject to change without notice.
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