



Xtreme/PSU-XP

Connect Tech's Xtreme/PSU-XP is a high efficiency, high powered PC/104 form factor power supply with extended temperature capabilities. Xtreme/PSU-XP 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-XP is a highly reliable power supply which provides 154W of total output power with +3.3V, +5V, +12V, -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-XP 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-XP can be used in combination with Connect Tech's stackable CPU and expansion boards for a total design solution.

Product Name: Xtreme/PSU-XP
Part Number: PSG007, PSG008, PSG009, PSG010, PSG011, PSG012



FEATURES

✓ 154 W total output power, +3.3V@10A, +5V@10A, +12V@5A, -12V@0.5A, +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)

Specifications	
Dimensions	PC/104 Standard 3.55" (90mm) x 3.775" (96mm)
Bus Expansion Options	
• PSG007:	PC/104-Plus (PCI & ISA)
• PSG008:	PC/104 (ISA Only)
• PSG009:	PCI-104 (PCI Only)
• PSG0010:	PCIe/104 (PCI Express Only)
• PSG0011:	PCI/104-Express (PCI Express & PCI)
• PSG0012:	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	154W
• +3.3V	10A maximum continuous for full -40 to +85 range
• +5V	10A maximum continuous for full -40 to +85 range
• +12V	5A maximum continuous for full -40 to +85 range
• -12V	0.5A 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
Warranty and Support	Lifetime warranty and free technical support

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