

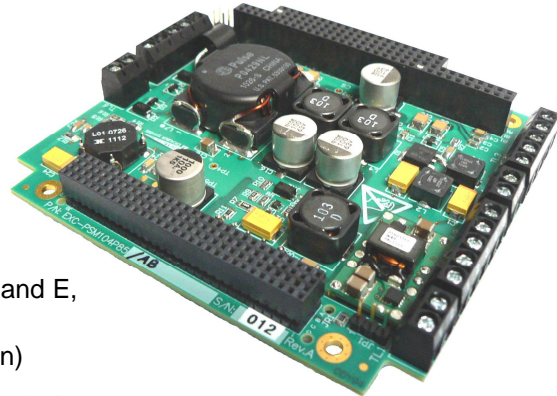
EXC-PSM104P85S

Excalibur's EXC-PSM104P85S is an isolated DC power supply specifically designed to provide reliable power for highly demanding PC104-*Plus* imbedded applications. The EXC-PSM104P85S has a wide input voltage range while providing robust and reliable power for embedded and industrial motherboards. The power supply is also fully compliant with MIL-STD-704A and E, MIL-STD-1275B, MIL-STD-461E and MIL-STD-810G.

The EXC- PSM104P85S has totally independent safety features including input undervoltage lock-out, output overvoltage protection, output current limit protection, and temperature protection. Additionally, the Soft-Start function limits inrush current during startup.

General Features

- ◆ Up to 85W power output
- ◆ Input voltage range: 11VDC to 36VDC
- ◆ Output voltages: 5V, 3.3V, +/-12V
ATX compliant voltages
- ◆ Industrial temperature range
- ◆ Specifically designed in accordance with PC104-*Plus* specifications
- ◆ Tested and fully complies with MIL-STD-704A and E, MIL-STD-1275B, MIL-STD-461E and MIL-STD-810G (with ruggedized, -R, option)



Power

- ◆ Input Voltage: 11 – 36VDC
- ◆ Output Power: Up to 85W
- ◆ Output Voltages: 5V±1%
3.3V±2%
12V±1%
-12V±1%
- ◆ Output Current: *

5V	max 15A
3.3V	max 15A
12V	max 2.0A
-12V	max 1.5A

* Maximum total load no more than 85W

Protection

- ◆ Input Undervoltage Lock-out
- ◆ Output Overvoltage Lock-out
- ◆ Output Current Limit Protection
- ◆ Temperature Protection
- ◆ Soft-Start

Physical Characteristics

- ◆ Dimensions: 96.0mm x 105.5mm
- ◆ Weight: Max 200g

Operation Environment

- ◆ Temperature: -40° to +85°C standard temp.

Host Interface

- ◆ PC/104-*Plus* compatible systems

Ordering Information

- ◆ **EXC-PSM104P85S** Power supply board with 5Vdc output voltage only
- ◆ **EXC-PSM104P85S-A** Power supply board with 5Vdc and 3.3Vdc output voltages
- ◆ **EXC-PSM104P85S-B** Power supply board with 5Vdc and ±12Vdc output voltages
- ◆ **EXC-PSM104P85S-AB** Power supply board with 5Vdc, 3.3Vdc and ±12Vdc output voltages
- ◆ Additional Options:
 - 001 With conformal coating
 - L With feedthrough pins for PCI and ISA bus connectors
 - R Ruggedized (components staked and bonded)



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These specifications are subject to change without notification

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