

Features

General Features:

Architecture

- PC/104 compliant

Voltage Input:

- VIN=+8 VDC to +40 VDC
- High transient voltage margin (50V 1ms)

Voltage Output:

- +5V, +12V, +3.3VDC

Power Output:

- Up to 50 Watts Combined
(+5V@10A, +3.3V@2A, +12V@2A)

Input Protection:

- Reverse over-voltage and load-dump protection
- Input protected with automotive transient voltage suppressor (6600W 10/1000us)
- Suitable for 12 or 24 V battery installations

EMI Input Filter:

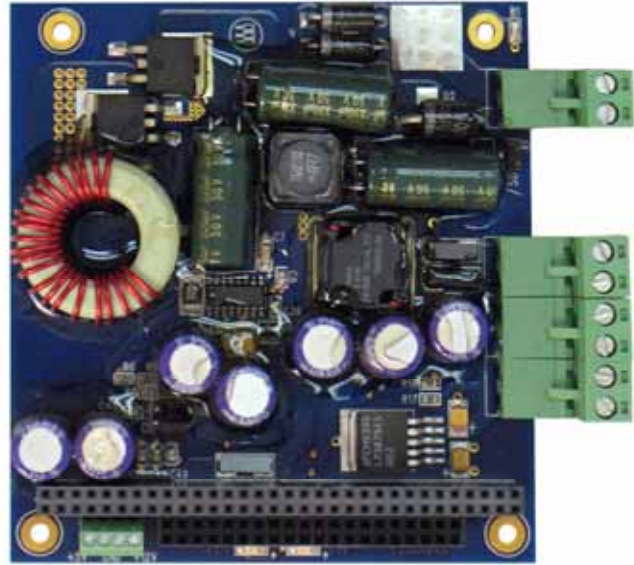
- Onboard input filter designed to comply with MIL-STD-461, CE, and EN-55022 class B conducted and radiated emissions

Power Connectors:

- PC/104 Bus
- Screw Clamp Terminal Blocks;
- HDD Terminal Block

RoHS:

- Fully RoHS (2002/95/CE) Compliant
- RoHS replacement for ACS-5150



The ACS-5151 vehicle power supply is designed to meet the system design requirements of vehicle, machine, industrial, and mobile installations. It offers resistance to high levels of shock and vibration and has a rugged mechanical design. All heavy components are glued to the board.

Reverse protection up to -45VDC and short-term tolerance of spikes up to 50V (1ms) make this power supply the ideal choice for battery operated +12V or +24V systems. A dedicated high power automotive voltage suppression circuitry will dissipate up to 6KW of transient energy (10/1000us waveform) meeting the ISO7637-2 surge specification. The onboard input filter and protection circuitry is designed to meet the requirements of the EC low voltage directives for CE compliance EN55022-B and EN61000 and MIL-STD-461 for radiated and conducted emissions. Emissions are reduced by optimal layout, as well as EMI filtering of all the board outputs including the power applied into the PC/104 computer bus.

The output voltages are supplied into the PC/104 bus as well as can be accessed from the terminal blocks on the board. The +3.3V output can be used to power other low voltage peripheral devices in the system such as LCD panels, GPS receivers or wireless communication devices. LEDs indicate the status of the +5V and +12V power outputs.

ACS-5151

Applications

- High Reliability Systems
- Vehicle and mobile computers
- Industrial controllers
- Ship and airborne systems

About Eurotech

Eurotech delivers embedded computer systems for high capability and low power applications, networking and wearable computing solutions, and application framework middleware for multimedia, industrial, transportation, medical, and wireless applications. Eurotech platforms allow OEM and enterprise customers to focus on their core revenue-generating products and services and get to market quickly.

Specifications

EFFICIENCY	88% typical on 5V (at full load)
MTBF	• 997079 hours (GB, Controlled) • 157971 hours (Airborne Inhabit Fighter)
Calculated per: MIL-HDBK-217F @ 40°C	
DIMENSIONS	90 x 96 mm (3.6" x 3.8")
OPERATING TEMPERATURE	-40 ~ +85°C (-40 ~ +185°F)

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