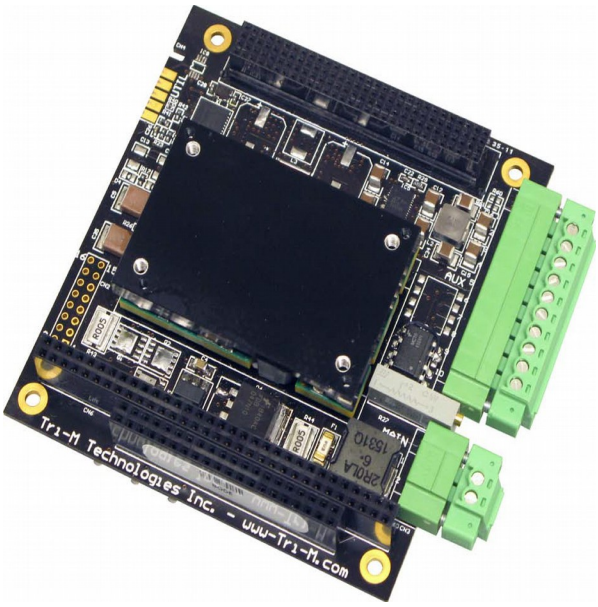
TPSi1000-5-12

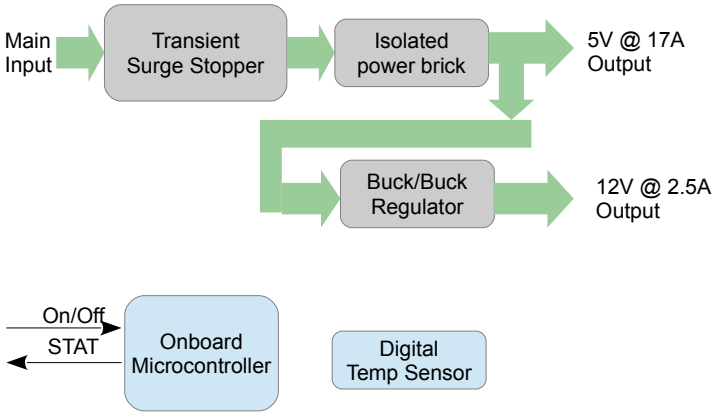
PC/104 Isolated Power Solution

DC/DC 85W, 5V & 12V



The TPSi1000-5-12 is an isolated PC/104-Plus power solution for use in embedded applications requiring isolation. The wide-range input voltages, transient suppression, isolation and pluggable terminal mating plugs make the TPSi1000-5-12 ideal for use in rugged and hostile applications. Designed tough for harsh environments including military standards, shock, vibration and extended temperature.

TPSi1000-5-12 Block Diagram



Features

- **Enhanced Protection**
  2250V input/output isolation
  6000W transient suppression
  Active input voltage clamping
- **Wide Input Voltages**
  9 to 33VDC
- **PC/104 Plus form factor**
- **Standard Outputs**
  5V @ 17A
  12V @ 2A
- **Extended Temperature**
  -40°C to +85°C
- **Mechanical shock & vibration**
  MIL-STD-810 levels
- **High Efficiency**
  Up to 88% efficiency 5V output

Related Products

- **VDX104-1E**: sub 2 watt X86 PC/104 embedded processor with onboard DDR2 RAM, RS232, USB and ethernet.
- **TCB1522**: Communication module with isolated RS232, RS485, CANbus and MultiTech universal sockets.
- **IR104**: I/O module with 20 isolated digital inputs, 20 relay outputs.

Toll Free 800.665.5600 (North America)
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Specifications

Electrical

Input Voltage Range and Protection

- **9** to 33V input range
- Transient surge stopper designed to MIL-STD-1275 levels.

Output Power

- 5V @ 17A
- 12V @ 2A

Mechanical

Dimensions

- Footprint: 3.55 x 3.775” [90 x 90mm]
- Height: 0.6” [15.24mm]

Weight

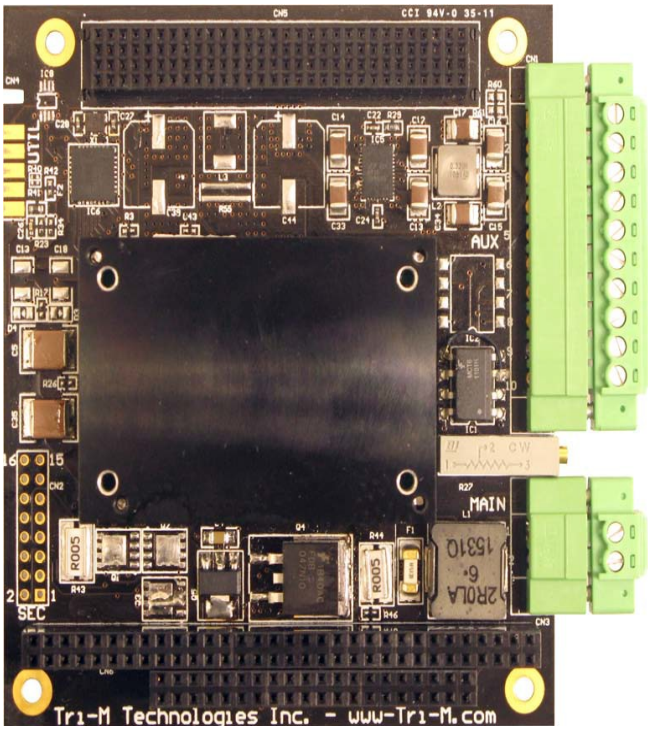
- 2.9 oz [82 grams] (V12SC-SER)

Environment

Operating Temperature

- -40 to 85deg (V12SC-SER)

Top View



Ordering Information

Model: TPSi1000-5-12[-B1][+B2][-CC]-PBF; PC/104 size, 12V main output, 5V power output, smart

Bus Options

where [-B1] is the optional PC/104 bus configuration
“-B1” is blank, stack through PC/104 bus (ex:TPSi1000-5-12-PBF)
“-B1” is “-N”, no PC/104 bus (ex: TPSi1000-5-12-N-PBF)
“-B1” is “NS”, non-stack through PC/104 bus (TPSi1000-5-12-NS-PBF)

where [-B2] is the optional Plus bus configuration
“+B2” is blank, stack through Plus bus (ex:TPSi1000-5-12-PBF)
“+B2” is “+N”, no Plus bus (ex: TPSi1000-5-12[-B1]+N-PBF)
“+B2” is “+NS”, non-stack through Plus bus (ex:TPSi1000-5-12[-B1]+NS-PBF)

Conformal Coat Options

where [-CC] is the conformal coating selection.
“-CS” is silicon conformal coating
“-CU” is urethane conformal coating
“-CH” is Humiseal #1B73 conformal coating