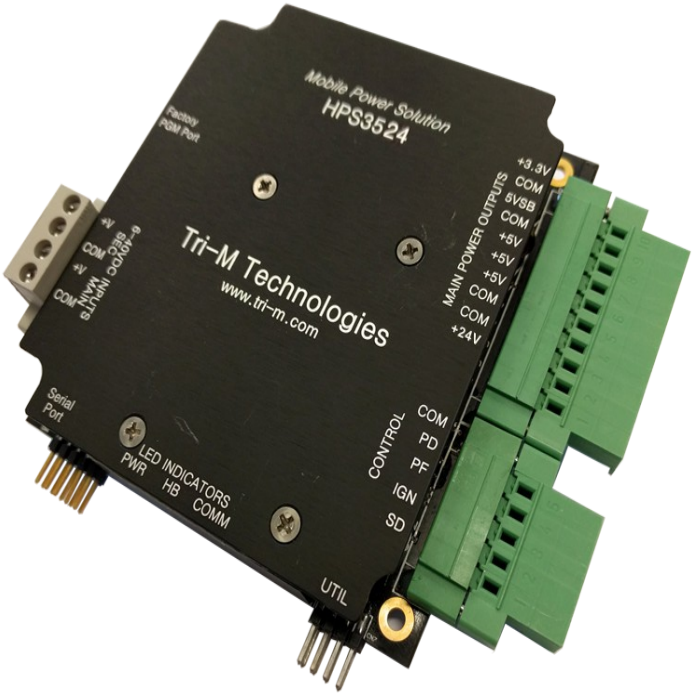
HPS3524

PC/104 Footprint Size Power Solution

Built Rugged for Hostile Environments



HPS3524 Description:

The HPS3524 is a high power, high performance PC/104 PSU that supplies 3.3V, 5V, 5VSB and 24V outputs. The HPS3524 is designed for low noise embedded computer systems, has a wide input range of 6-40V(>6:1) and is ideal for battery or unregulated input applications. The HPS3524 is specifically designed for vehicular applications and has heavy-duty transient 18000W suppressors that clamp the input voltage to safe levels, while maintaining normal power supply operation.

The low noise design makes the HPS3524 ideal for use aboard aircraft or military applications or wherever EMI or RFI must be minimized.

The HPS3524 has advanced power supply management functions that allows timed on/off control of the outputs and notification of changes to main power and secondary power status.

The HPS3524 size is 90 x 96mm (PC/104 foot print size). The output voltages are provided on a removable header.

Ordering Information:

Model: HPS3524[-CC]-PBF; PC/104 size, 3.3V, 5V, 5VSB & 24V outputs

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

Example: HPS3524-CS-PBF; Silicon conformal coated HPS3524

Specifications

- **Outputs:**
  3.3V at 10A
  5V @ 15A
  24V @ 2.5A
  5VSB @7A
- **Maximum Output Power**
  203 watts (Limited by thermal management used)
- **Enhanced Protection**
  18000W transient suppression (Main and secondary combined)
- **Wide Input Voltages**
  6 to 40VDC
- **Mechanical shock & vibration**
  MIL-STD-810 levels
- **Opto-coupled On/Off control**
  Maintained action (IGN)
  Pushbutton
- **Serial interface port**
  RS232 buffered
- **Digital temperature sensor**
  One on board. Supports seven external I^2C temperature sensors
- **Bi-color LED status indication**
  Power, Heartbeat and Communications status
- **PC/104 foot print size**
  90 x 96mm
- **Height**
  15mm
- **Weight**
  207 grams
- **Temperature range**
  -40°C to +85°C
  (temperature on heat spreader)

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