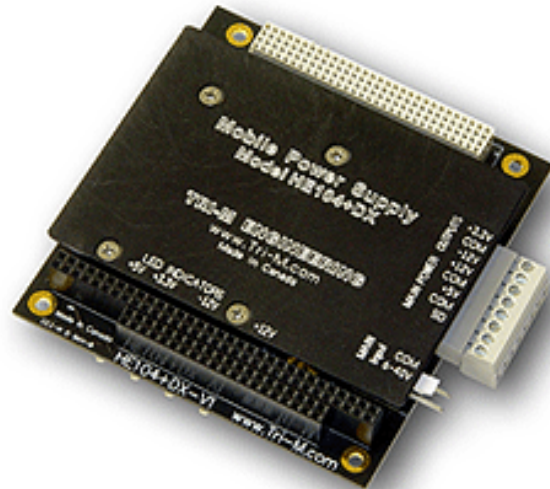




HE104+DX - 108 Watt High Efficiency PC/104-Plus

FEATURES

- 108 Watt Power Supply
- 6V to 40V DC input range
- +3.3V, +5V, +12V, -12C DC output
- High efficiency up to 90%
- PC/104-Plus (PC/104 & PCI-104)
- Extended temperature: -40°C to +85°C



FUNCTIONAL DESCRIPTION

The HE104+DX 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 HE104+DX is specifically designed for vehicular applications and has heavy-duty transient suppressors (9000W on both main and secondary inputs) that clamp the input voltage to safe levels, while maintaining normal power supply operation.

The HE104+DX is a state-of-the-art Mosfet based design that provides outstanding line and load regulation with efficiencies up to 90 percent. Organic Semiconductor Capacitors provide filtering that reduces ripple noises below 20mV. The low noise design makes the HE104+DX ideal for use aboard aircraft or military applications or wherever EMI or RFI must be minimized. The +5VDC and +12VDC outputs are controlled by a constant frequency architecture regulator that provides excellent line and load transient response.

The HE104+DX has an opto-coupled on/off input (SD) to control the outputs of the HE104+DX. To enable the HE104+DX outputs, a 6 to 40V signal must be connected to the SD input. If remote control is not required, the SD input can be connected to the main power input. The common for the remote 6 to 40V signal must be connected to the HE104+DX common. If the SD input is connected directly to the main input power connector, the common for the SD input is already done. The HE104+DX is now RoHS compliant.



Specifications

Electrical Specifications

- 5V output 15A
- 12V output 3A
- 3.3V output 10A
- -12V output 0.5

Input Voltage

- 6 to 40V

Mechanical/Environmental

- Temperature Range -40 to 85C
- PC/104 size & mounting holes with PC/104 and PCI-104 (Plus) busses
- 3.55"W x 3.75"L x 0.6"H
- Weight 6.08 oz/172.37 grams

Performance Characteristics

- Load Regulation (5V output) <60mV
- Line Regulation 40mV
- Output temp. drift (5V output) <40mV
- Switching Freq. 300kHz
- Max. Input Transient 125V for 100msec
- Output Ripple (5V output) <20mV
- Conducted Susceptibility (5V output) >57db
- Efficiency (5V output) Up to 90%

Ordering Information

- | | |
|--------------|---|
| HE104+DX | +3.3V, +5V, +12V, -12V DC outputs,
108 Watt power supply |
| HE104+DX-S-N | +3.3V, +5V, +12V, -12V DC outputs with
PC/104 bus, no PCI104 bus |