

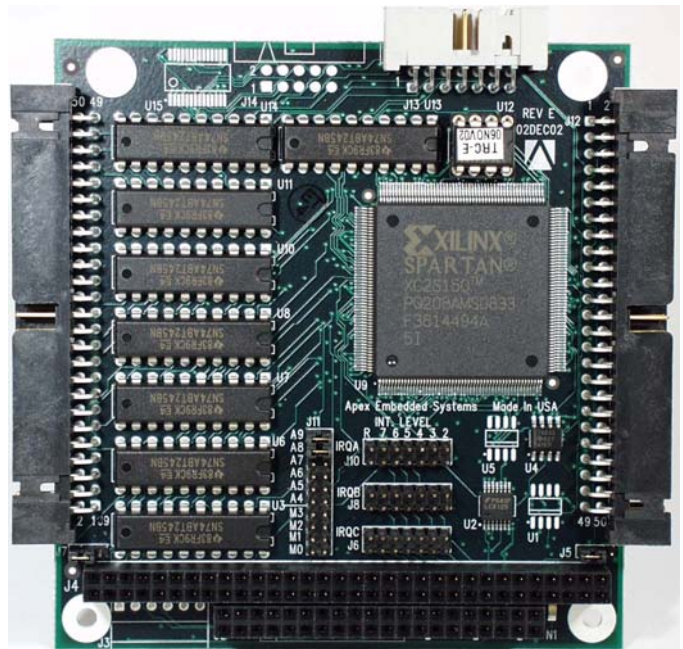


June 23, 2009

*The TRACER-E is toughest low power PC/104
DIO module on the market today!*

The Tracer is a high current PC/104 digital I/O and counter/timer module. It is designed for use in systems where high reliability is of utmost importance while operating in harsh environments. The board provides 48 lines of 8255 compatible general purpose I/O and three 16-bit 8254 compatible counter/timers.

- **8255 Software compatible interface structure.** The hardware provides two 8255 compatible I/O ports that provide 48 lines of general purpose I/O.
- **8254 Software compatible counter/timers.** Three 16-bit counter/timers are based on an 82C54 and support clock frequencies to 40MHz.
- **Polarized I/O Connectors.**
- **Improved Power Requirements:** 5V only, 100mA no-load (500mW quiescent).
- **High-current outputs:** sink 64mA, and source 18mA. This is true even while operating at high temperatures.
- **Improved input currents reduced to +/- 20uA.**
- **-40 to 85°C Operating Temperature.**
- **No tantalum or electrolytic capacitors used in the design.**
- **LED Status indicator.** Useful in determining general status and in system debugging. A wide variety of signals can be routed to the LED via software selection.
- **Direct interfacing to OPTO-22's isolated I/O racks.** Digital I/O connectors organized to allow direct connection to OPTO-22's isolated I/O racks that use the G4 series of I/O modules, the PB16-H, PB16-J, PB16-K, PB16-L, PB8H and the PB24HQ.
- **Broad selection of interrupt sources and software configurable.**
- **Designed for operation in harsh environments.** All components and materials used in our products are designed to operate in the extended temperature range, under high shock and vibration.



- **Long-Term Product Availability.** Apex Embedded Systems is committed to delivering long life cycle products.
- **MTBF:** 600,000 hrs, ground benign. Per MIL-HDBK-217F at 40°C.
- **FPGA customization available.** We are always able to offer FPGA customization to any of our standard products to meet your exact program requirements.
- **Drivers Available:** Linux, Windows XP, DOS.
- **Designed and manufactured in Wisconsin by Apex Embedded Systems.** We will do whatever we can to assist you in designing in our products.

Ordering Information**Part Number:** TRACER-E**Description:** RUGGEDIZED PC/104 High Drive
48 line DIO and counter-timer module**Apex Embedded Systems**

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