# 188SBC

- 512K Flash or UV EPROM
- 512K SRAM, Battery Backed
- PC/104 Bus - 8-Bit
- User Defined I/O, Using FPGA
- Opto-Compatible 24-Bit I/O
- LCD/Keyboard Interface
- 16 Ch., 12- or 16-Bit ADC
- 8 Ch., 12-Bit D/A
- Two RS-232/-485, One Parallel Port

Incorporating the embedded Intel architecture in an embedded system allows you to leverage the experience and flexibility of the PC architecture and numerous tools available for the PC. The 188SBC is not just another embedded PC, but builds on the integrated Intel CPU with a complete, integrated, embedded computer with an on-board switching power supply and a wide selection of optional I/O, including unique, user-definable hardware, implemented using a software programmable gate array chip. The analog, Opto-compatible, parallel, LCD and keyboard matrix I/O make it easy to get connected to the real world. Character and graphic LCDs with controllers will plug right in, with a software controlled contrast voltage. The Opto-compatible I/O provides industrial strength I/O and includes LED indication on all 24 lines. A second 82C55 provides an interface to low level I/O, such as a keyboard matrix. There are 16 multiplexed analog inputs to the A/D converter, with a ±5 or 0-10 volt input range, an anti-aliasing filter, 25 uS conversion time, and eight analog outputs.

The on-board power supply operates with an input of 12 to 20 Volts, either AC or DC.

The board also includes 32-pin JEDEC sockets for battery-backed, fully static RAM, Flash or UV EPROM, two serial RS-232 or RS-485 ports which operate from 50 to 38.4K BPS, and an EPP/bidirectional or unidirectional parallel printer port.
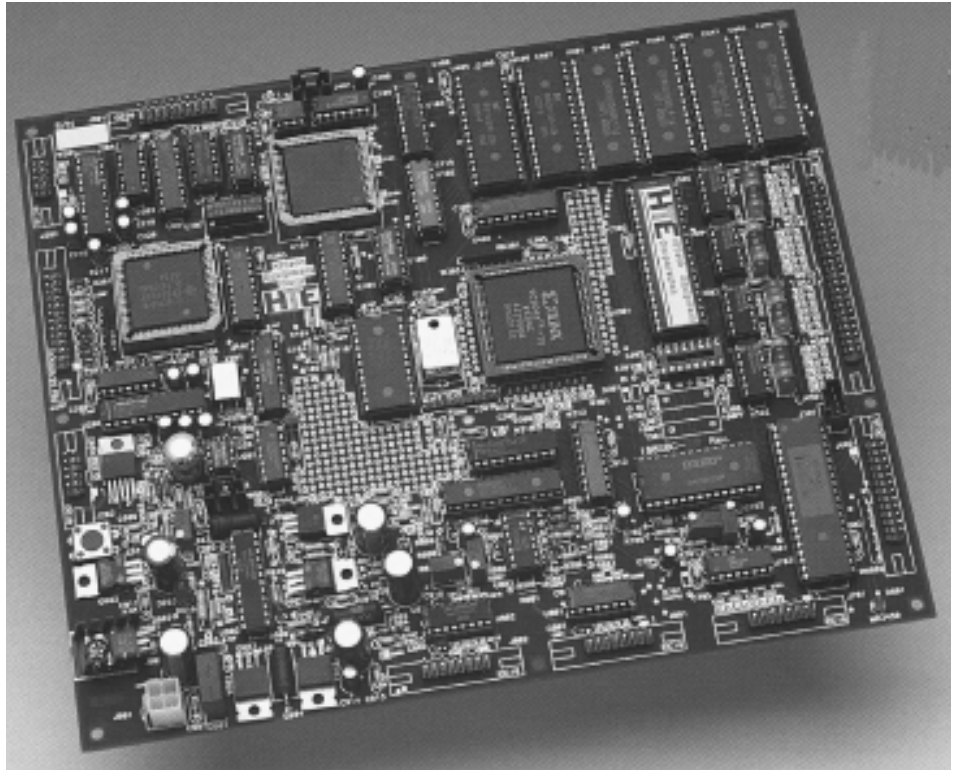
And if those peripherals aren't what you need, the optional Field Programmable Gate Array (FPGA) and a breadboard area allow any interface you need to be implemented using from 3000 to 9000 gates. The FPGA may be re-configured on-the-fly to perform special customized functions such as: dedicated hardware for DSP, high-speed hardware interfaces, communication, non-standard peripheral interfaces, timer/counter. You can design your own, or HTE can implement your design at a nominal cost.

In order to provide the most cost effective solution, the standard OEM 188SBC can be shipped with only the components you need, or we can modify our standard design for orders as small as 25 units.

HOST SYSTEMS SUPPORTED:

Microsoft or Borland C/C++ Compilers using Paradigm tools on PCs

PROCESSORS SUPPORTED:

80C188

AVAILABILITY:

In Stock

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