

ePC-1100: Embedded PC Based Controller

Product



ePC-1100 Data Sheet (pdf file)
ePC-1100 User Manual (pdf file)

Features

- Rugged mechanical design
- Sealed enclosure against liquid and dust
- High temperature operating range
- Shock and vibration isolation mounts inside
- Fanless CPU and solid state components for harsh environment operation
- PC/104 plus computer bus, widely accepted industry standard
- Any PC/104 and PC/104 plus compatible I/O card can be added to expand capabilities
- CAN bus interface standard for mobile equipment applications
- Military MS-connectors, sealed.

Specifications

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| 1. Enclosure | Extruded Aluminum with Shock Absorbers and Rubber Gaskets, Sealed. |
| 2. Mechanical Dimensions (Inches) | 5.5" X 5.5" X 6.25" or 5.5" X 5.5" X 9.50" |
| 3. Operating Temperature and Humidity | -20C to 85C, 0% to 90% relative humidity, non condensing |
| 4. Power Input | 9-40 VDC 110VAC Adapter |
| 5. CPU | Fanless, 450, 500, 650 MHz, 1.0 GHz, 1.4 GHz |
| 6. Permanent Memory Storage | 64MB – 4GB range Compact Flash |
| 7. RAM Memory | 64MB-512 MB range SDRAM |
| 8. Communications | Serial (RS-232) Ethernet (10/100 BaseT) USB 2.0 CAN 2.0A and B |
| 10. Operating System | Award BIOS 256 KB Flash DOS Matlab xPC Target Kernel (Other Operating Systems Available) |
| 11. Compatibility | 100% xPC and PC compatible |

| 12. I/O Options | Number of channels |
|---------------------------|--|
| Digital Input | 8 / 16 / 24 Optically isolated |
| Digital Output | 8 / 16/24 Optically isolated |
| Analog Input | 32 Ch/SE , 16 Ch/DE, 16-bit 64 Ch/SE , 32 Ch/DE, 16-bit |
| Analog Output | 4 Ch/8 Ch/12 Ch, 12-bit |
| PWM Input | 4Ch/8Ch/12Ch/16Ch, 12-bit Upto 100kHz rate |
| PWM Output | 4Ch/8Ch/12Ch/16Ch, 12-bit Upto 100kHz rate |
| Incremental Encoder Input | 2 Ch/4 Ch/6Ch/8Ch Upto 40MHz rate, x4 decode |
| LVDT Input | 2 Ch/4Ch/6Ch/8Ch |
| Resolver Input | 3 Ch/4Ch/6Ch/8 Ch |
| Frequency (Counter) Input | 4Ch/8Ch/12Ch/16Ch Upto 10MHz rate |
| Frequency Output | 4Ch/8Ch/12Ch/16Ch Upto 10MHz rate |
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Part Number for Ordering:

ePC-1100-xxx-xxx-xxx-Sx-Ex-Ux-Cx