

The Embedded I/O Company

TIP620 Digital 48, Dual PI/T

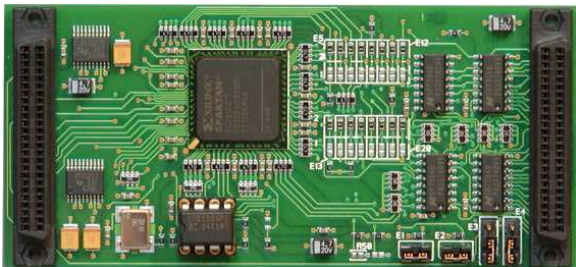
Application Information

TIP620 is an IndustryPack® compatible module emulating two Motorola MC68230 Programmable Interface/Timer (PI/T) ICs (without DMA). Together with the IDROM and additional logic they are integrated in a Xilinx Spartan II FPGA.

The TIP620-10 and TIP620-11 each has its own IDROM and I/O configuration. By changing solder connections, users may convert from one product to the other or intermediate configurations.

TIP620-10 is configured for 48 general purpose lines of bit I/O. Timer I/O is available. In this configuration 48 of the 50 cable lines are I/O, with 2 ground lines.

The TIP620-11 is configured to support additional features of the PI/Ts, such as Timer, I/O, interrupts, and double-buffered data transfer with hardware handshake. 32 lines for bit I/O are available, 8 bit or 16 bit (unidirectional, bi-directional, single or double buffered) plus 8 lines as programmable handshake lines or timer I/O with alternate ground wires.

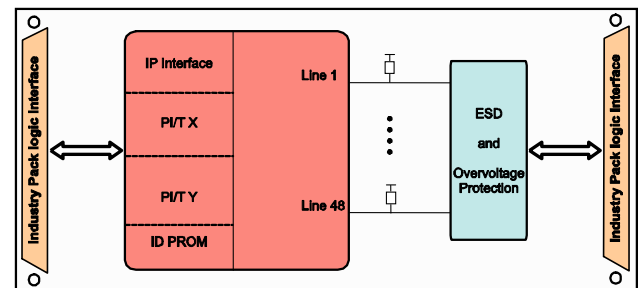


For First-Time-Buyers the Engineering Documentation TIP620-ED is recommended. The Engineering Documentation includes TIP620-DOC, schematics and data sheets.

Software Support is available for different operating systems.

Technical Information

- Interface according to IndustryPack specification
- Identification-PROM supports auto-configuration
- Single Size IndustryPack
- Up to 48 digital TTL I/O lines
- TTL compatible: 3.3V output high level, 5V tolerant
- Termination: 10kΩ pull-ups to 3.3V
- Output current max. +/- 2mA (partly +/- 8mA)
- ESD and overvoltage protection for each I/O line
- Operating temperature -40°C to +85°C



Order Information

RoHS Compliant

- | | |
|-------------------|-----------------------------------|
| TIP620-10R | 48 Line Digital Interface |
| TIP620-11R | Dual Programmable Interface/Timer |

None RoHS Compliant

- | | |
|------------------|---|
| TIP620-10 | None RoHS compliant version of TIP620-10R |
| TIP620-11 | None RoHS compliant version of TIP620-11R |

Documentation

- | | |
|-------------------|--|
| TIP620-DOC | User Manual |
| TIP620-ED | Engineering Documentation, includes TIP620-DOC |

Software

- | | |
|---------------------|--|
| TIP620-SW-42 | VxWorks Software Support (Legacy and VxBus-enabled Software Support) |
| TIP620-SW-65 | Windows XP/XPE/2000 Software Support |

For other operating systems please contact TEWS.