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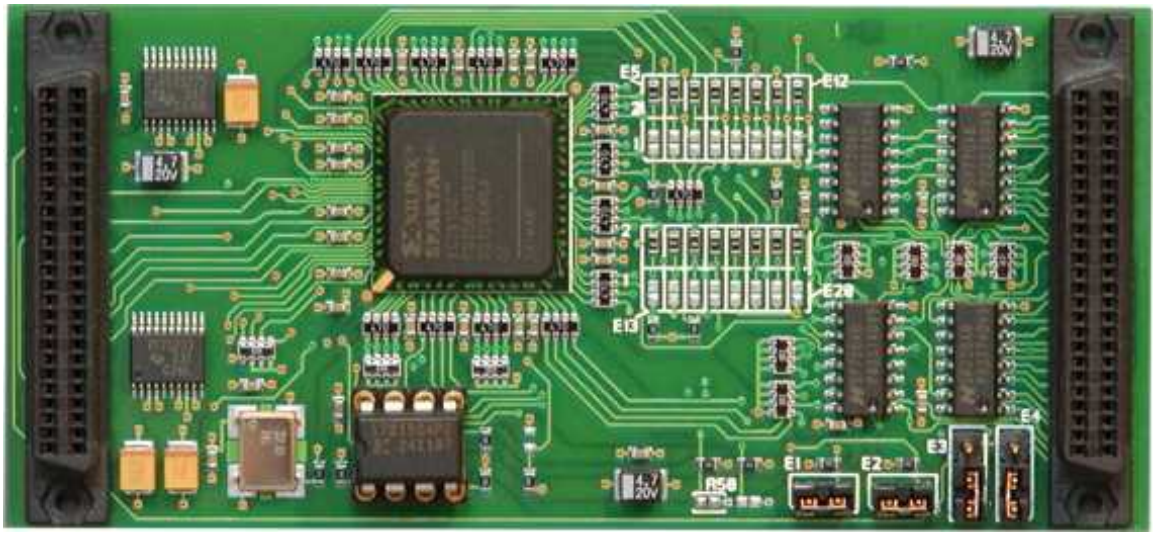
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# TIP620 Digital 48, Dual PI/T



## 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 TIP620-10R and TIP620-11R 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.

TIP620-10R 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 TIP620-11R 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.

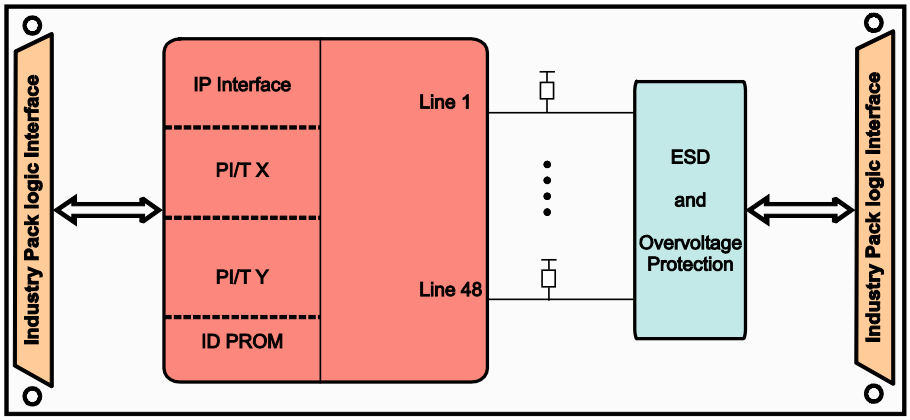
## Technical Information

- 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

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## Order Information

### RoHS Compliant

**TIP620-10R** 48 TTL I/O, emulating 2 x MC68230
**TIP620-11R** Dual PIT, emulating 2 x MC68230

For the availability of non-RoHS compliant (leaded solder) products please contact TEWS.

### Documentation

**TIP620-DOC** User Manual

### Software

For operating systems please contact TEWS.

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