

**TC102**  
**Datasheet**  
**SBC Designs, Inc.**  
[www.sbcdesigns.com](http://www.sbcdesigns.com)  
**256-704-4666**  
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Abstract

The TC102 is the industry standard PMC/PIM test card. It allows a PMC card or PIM card to be tested or operated in a normal PCI bus connector.

**Features of the TC102 PCI to PMC/PIM Test Card**

- Four power indication LEDs +5.0V, +3.3V, +12V, -12V
- Bus speed selection jumper
- PIM and PMC cards mount vertically to the TC102
- PIM and PMC cards are mounted offset from each other for debug
- Universal PCI bus voltage operation
- 32bit PCI or 64bit PCI bus width
- Board dimensions 9in x 1 7/8 or 23cm x 4.7cm
- 8 layer PCB for increased signal integrity
- Standard PCI solid metal bracket for mounting in chassis
- Standard 10mm PMC connectors
- Standard PIM and PMC mounting holes on the TC102 for proper mounting

## Detailed Information for the TC102

The TC102 PMC test card design allows a PMC card to be tested with or without a PIM card in a standard PCI slot. The TC102 is a versatile test platform that can meet your PMC test needs.

### Bus Voltage

The TC102 can operate at a bus voltage of 3.3V or 5.0V. The PCB is an 8 layer design. The 3.3V, 5.0V, VIO, and GND voltages are on separate power layers to increase signal integrity.

### Bus Speed

The TC102 can operate at 33MHz or 66MHz. It has a jumper onboard that allows a user to force the bus to 33MHz or allow the PMC card to choose the bus speed.

### Voltage Indication

The TC102 has 4 LEDs to indicate voltage presence. The LEDs do not indicate proper voltage levels; they just indicate that a voltage is present. The 4 LEDs correspond to 3.3V, 5.0V, +12V, and -12V.

### PMC PIM Mounting

The PMC card and the PIM card mount vertically on the TC102. They are offset horizontally from each other so that both sides of the each card may be reached during debug.

### PCB Dimensions

The PCB is 9in X 1 7/8" or 23cm x 4.7cm. The PCB is 8 layers.

### TC102 Mounting

The TC102 will mount in a 32bit or 64bit PCI slot. A solid metal bracket is provided to mount the TC102 to the computer chassis.

### PMC Connectors

Standard 10mm PMC connectors are used on the TC102. Upon request a different size connector can be installed.

### PMC PIM Mounting Holes

The TC102 has 4 isolated holes to mount the PMC card and the PIM card to the TC102. The holes are placed to mimic a standard PMC hole-pattern on a motherboard. This allows the TC102 to be used in a non-testing environment if needed.

### Ordering Information

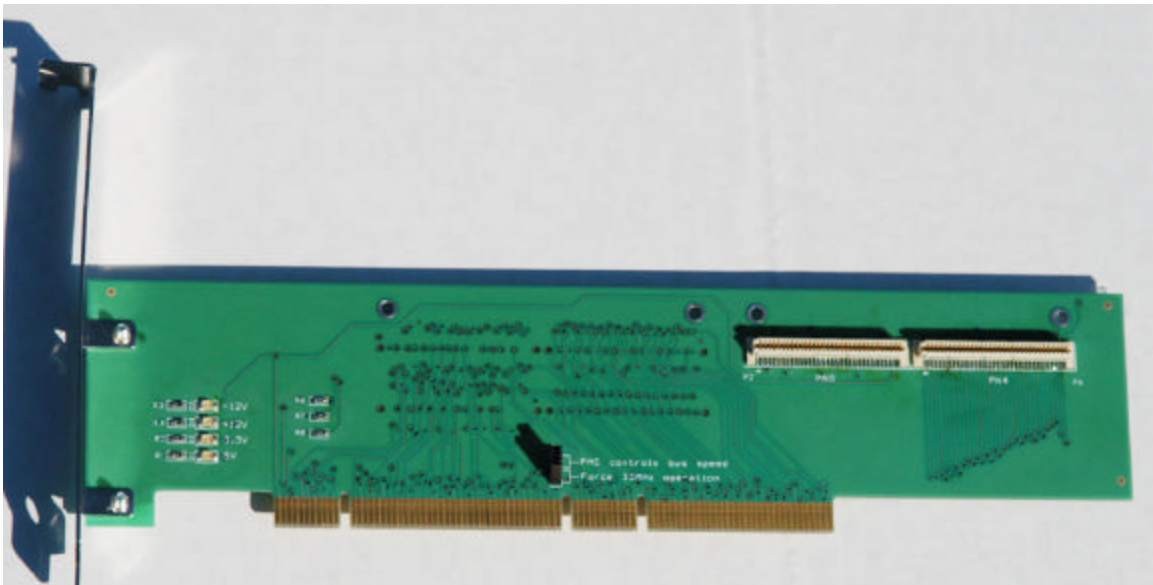
The part number for the standard TC102 is “TC102-10mm.”

### Warranty

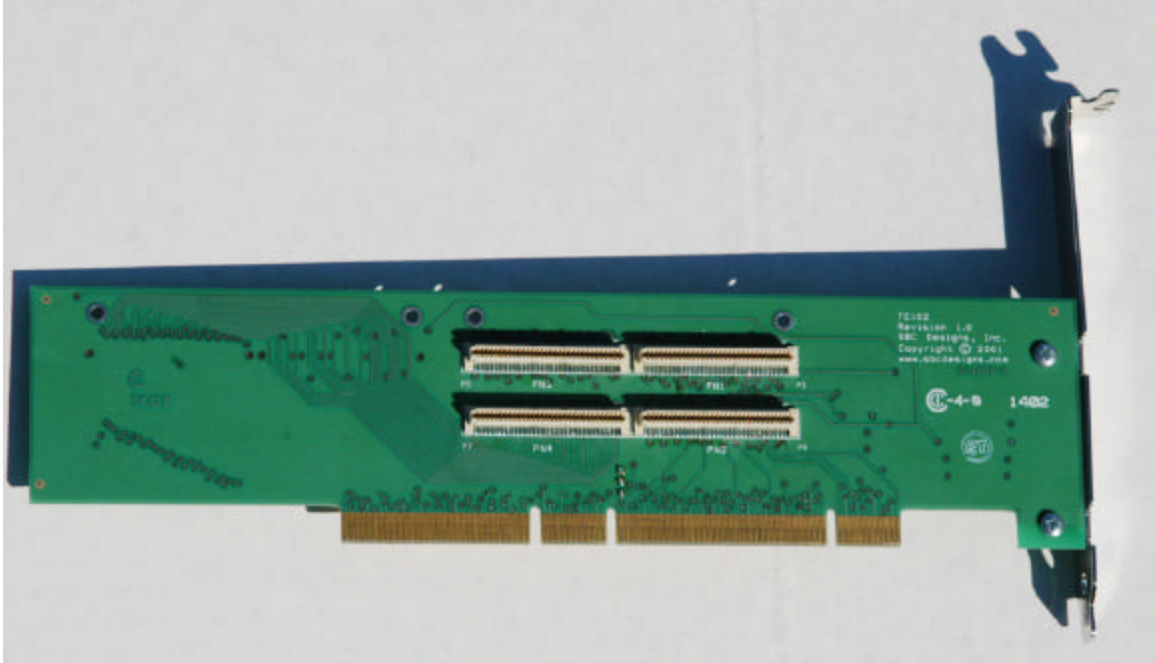
The TC102 has a 1 year warranty. This warranty does not cover abuse from the customer. Each TC102 is fully tested before leaving the factory.

### Sales Contact

Contact Damon McGill at 256-704-4666, [damon.mcgill@sbcdesigns.com](mailto:damon.mcgill@sbcdesigns.com), for any sales or technical question you may have about the TC102.



TC102 Front



TC102 Rear