



**Overview**

The PCCtest 460 is designed to test the full functionality of the CardBus and 16-bit PC Card interface. Since the 1995 releases of the PC Card Standard, the number of different cards that can be supported in a single machine have drastically increased. It is not uncommon for a PC Card slot to support 32-bit CardBus, 16-bit PC Card, Zoomed Video, 5V and 3.3V Cards. Testing this slot can involve inserting 3-4 cards to verify full functionality. The PCCtest 460 is the only test card designed to emulate all card types in a single unit.

Housed in a type II PC Card, the PCCtest 460 can test the 32-bit CardBus, 16-bit PC Card and Zoomed Video interface. In CardBus mode, the PCCtest is capable of responding to target memory, I/O and configuration cycles. Master mode I/O and memory cycles can be generated under program control. Control, address, data can be latched to verify correct access. In 16-bit mode, the PCCtest 460 can verify all address, data, control and status signals. 16-bit testing is supported at 3.3V and 5V. From 16-bit mode, the PCCtest can be configured for Zoomed Video (ZV) operation. In ZV mode, the PCCtest will generate a ZV data pattern designed to verify the ZV bus. An audio test pattern is generated simultaneously to verify the ZV audio signals.

Selection of CardBus or 16-bit interface is accomplished through an external configuration header. This header plugs into the PCCtest's 15-pin I/O connector. The PCCtest 457 switchable configuration header has a slide switch that selects between 16-bit or CardBus modes. An optional external configuration unit, the PCCtest 455, provides for program control of 16-bit or CardBus modes.



**Key Features**

- All circuitry housed in a type II CardBus compliant enclosure
- Accurate Vcc and Vpp measurements
- High quality AMP connectors for long service life
- 3.3V and 5V operation

**16-bit Mode**

- 16-bit interface compatible with PCCtest 2xx series of socket testers
- Tests all address, data and control signals
- A/D provides accurate voltage measurements
- Measures strobe timing
- Speaker test

**CardBus Mode**

- Accepts target memory, I/O and configuration cycles
- Generates master memory and I/O cycles
- Verify address/data and control signals
- Measures CardBus clock frequency
- Optional serial port for interactive debugging (PCCtest 550)
- Supports all CardBus controllers from Texas Instruments, Ricoh, O2 Micro and Cirrus Logic (Basis)

**Zoomed Video Mode**

- Generates ZV test pattern on all 16 YUV lines
- Generates stereo test tone
- Supports most major video and audio chips.

**Accessories Supplied**

**Model 460-01**

- PCCtest Operations Manual
- PCCtest software
- PCCtest 457 switchable configuration header

**Model 560**

- PCCtest Operations Manual
- PCCtest software
- PCCtest serial cable
- PCCtest 551 External Control Unit
- PCCtest Technical Reference Manual

# PCCtest 460/560

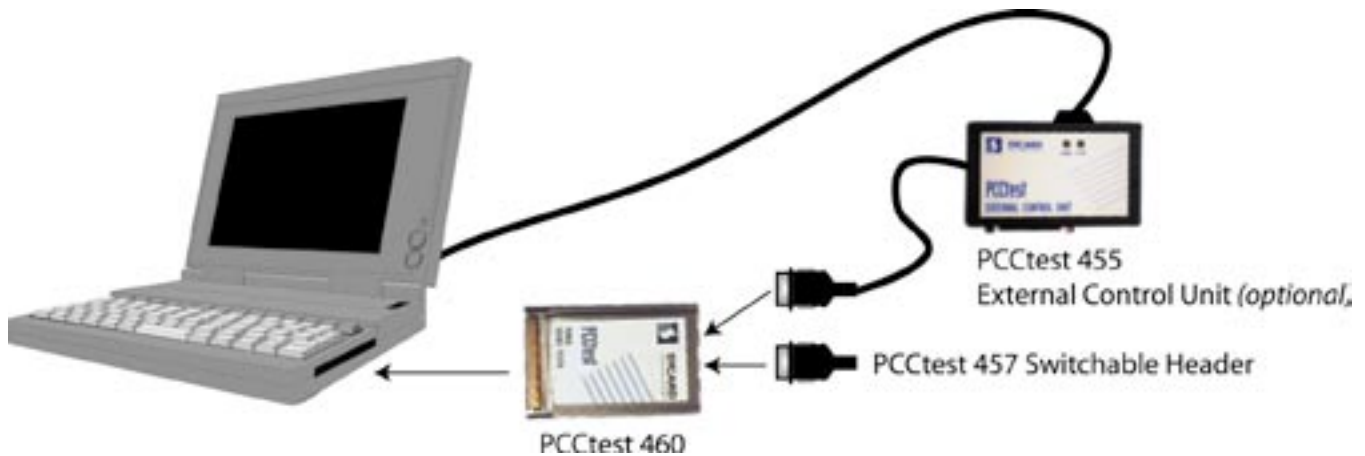
## CardBus Test Card

### PCCtest 455 External Control Unit

The PCCtest 455 External Control Unit in conjunction with the PCCtest 460 is designed to automate testing of the PC Card socket. The PCCtest 455 controls the configuration of the PCCtest's Card Detects and Voltage Sense pins. Through program control the PCCtest 455 can configure the PCCtest for CardBus, 16-bit, 3.3V or 5V operation. The PCCtest 455 connects between the host PC's parallel port and the PCCtest 460's 15-pin I/O interface. Software support for the PCCtest 455 is included in the PCCtest 460 software.

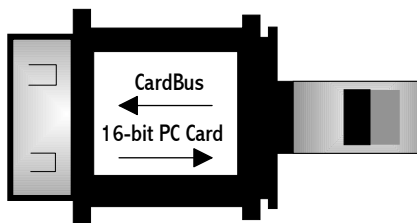
### PCCtest 560 Engineering CardBus Tester/Debugger

The PCCtest 560 extends the functionality of the PCCtest 460 by adding a serial debug port. The serial debug port allows the user to monitor the CardBus or 16-bit interface. In CardBus mode, the PCCtest 560 is capable of initiating I/O and memory transactions. It can also monitor the CardBus interface for any type of cycle. The serial interface is useful for debugging a new design or for component level debug. The PCCtest 560 includes an external control unit (PCCtest 551) that provides the features of the PCCtest 455 with the addition of a serial port connector.



### PCCtest 457 Switchable Configuration Header

The PCCtest 457 switchable configuration header is used to place the PCCtest 460 into CardBus or 16-bit mode. A slide switch selects between 16-bit or CardBus operation. The PCCtest 457 is included with the PCCtest 460-01.



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