SYCARD TECHNOLOGY

Product Brief

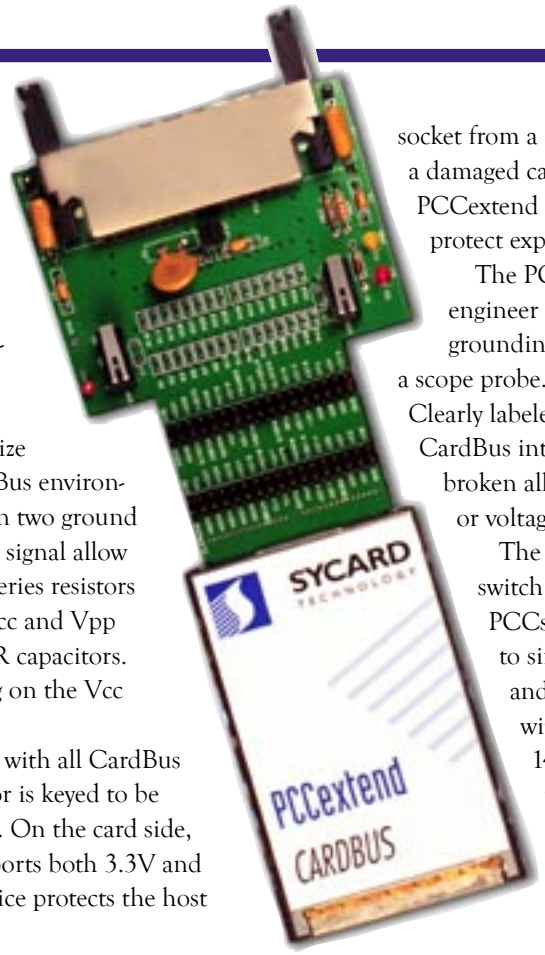
PCCextend 140A
CardBus Extender

Overview

Sycard Technology PCCextend 140A CardBus extender is one of the first extender cards developed specifically for the CardBus interface. The PCCextend 140A was designed from the ground up to support the higher data rates and controlled impedance requirements of the CardBus interface.

Fabricated on a six-layer board, the PCCextend 140A is designed to minimize signal degradation in the 33MHz CardBus environment. Each signal line is buried between two ground plane layers. SMT resistor pads on each signal allow the user to break signal lines or insert series resistors to clean up troublesome signals. The Vcc and Vpp power planes are bypassed with low ESR capacitors. Tantalum capacitors prevent voltage sag on the Vcc plane.

The PCCextend 140A is compatible with all CardBus capable sockets. The host side connector is keyed to be compatible with all 3.3V PC Card slots. On the card side, the CardBus compliant connector supports both 3.3V and 5V keyed cards. A current limiting device protects the host socket from a damaged card. This resettable fuse prevents a damaged card from "smoking" your host socket. The PCCextend can be used on the manufacturing floor to protect expensive test systems.



The PCCextend 140A was designed with the engineer and technician in mind. Thoughtfully placed grounding posts provide a convenient place to ground a scope probe. Dual LEDs indicate if Vcc is at 3.3V or 5.0V Clearly labeled headers allow access to all 68 pins on the CardBus interface. Headers allow the Vcc plane to be broken allowing currents consumption measurements or voltage margin testing of your design.

The PCCextend 140A brings with it the PCCswap switch introduced on our PCCextend 100. The PCCswap switch interrupts the Card Detect signals to simulate an insertion/removal cycle. Save wear and tear on your connectors (and your fingers) with the PCCswap switch. The PCCextend 140A includes dual PCCswap switches to support both CardBus and 16-bit PC Cards. The unit is constructed out of high quality components for years of trouble free operation.

Key Features	Feature Benefits
6-layer construction	Low crosstalk and noise
Controlled impedance design	Requred by CardBus specification
All 68 pins accessible	Easy access to probe points
LEDs indicate voltage	Visual indication of Vcc
Switch simulates insertion/removal	Prevents connector wear and tear
Current protection device	Protects host from damaged card
Type I form factor	Fits all 3.3V PC Card slots
Vcc jumper block	Allows for current measurements
Optional HP Logic Analyzer Adapter (PCCextend 145)	Quick hook-up to HP Logic Analyzers

Mechanical Specfications

Width	3.0" (7.6mm)	Weight	3.0 oz
Length	7.8" (19.8mm)	Thickness	0.5" Max (12.7mm)

Accessories Supplied

- User's Manual
- Signal Identification Overlay

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