



PRODUCT BRIEF VG469-EVAL PC CARD SOCKET CONTROLLER DEMO BOARD

Overview

The VG469-EVAL allows designers to verify the functionality and test design alternatives with the Vadem VG469 PC Card Socket Controller. The VG469 is a single-chip, dual-socket controller (cascadable up to four sockets) which is register compatible with the Intel 82365SL. Incorporating hot-insertion buffers, the VG469 requires minimum board space, economically implementing the PCMCIA 2.1 (JEIDA 4.1) specifications along with the ExCA™ extensions. Example applications include small notebooks, palmtops, and other personal information devices.

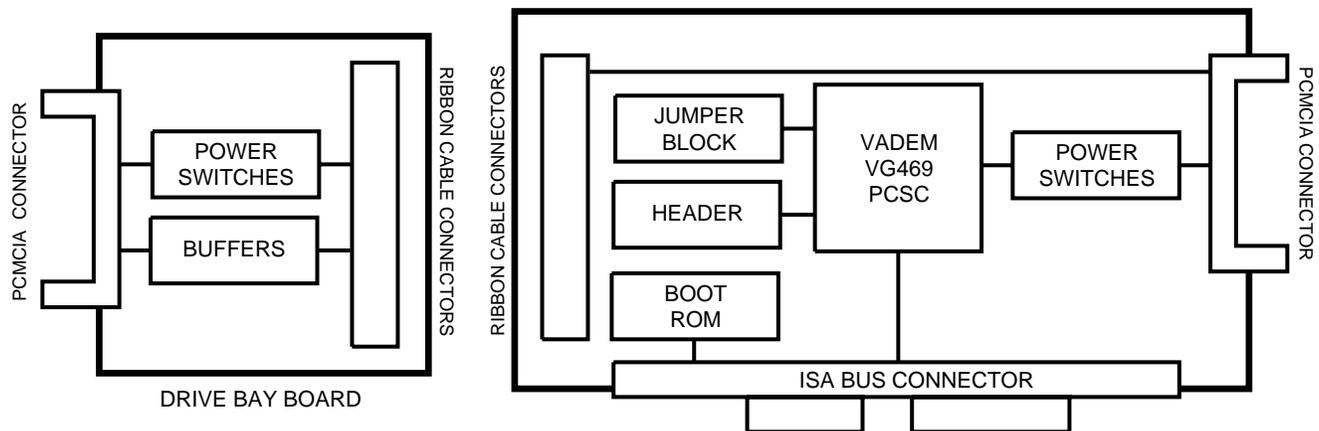
The VG469-EVAL is a two board set. One board is a standard PC peripheral card which plugs into either an XT or AT backplane. This board consists mainly of the following components: one VG469 PC Card Socket Controller, power switches, regulated VPP and 3.3V supplies, and a number of option selecting jumpers. A standard PCMCIA connector, ribbon cable connectors and a header to access non-ISA signals are also provided. The second board is a 3.5" floppy drive form factor drive bay board connected to the first with ribbon cables. The drive bay board contains a standard PCMCIA connector, regulated VPP and 3.3V supplies, ribbon cable connectors and buffers for card address and data.

Third party PCMCIA support firmware and software is also included.

Key Features

- Full ExCA implementation of two PCMCIA 2.1 (JEIDA 4.1) PC Card sockets.
 - ✓ Memory cards as well as I/O cards (miniature peripherals).
 - ✓ PCMCIA-ATA hard disks and semiconductor disks.
 - ✓ Memory-saving execute-in-place standard (XIP).
 - ✓ Overlapping I/O windows across sockets and duplicate I/O cards via *INPACK signal.
 - ✓ All ExCA extensions.
 - ✓ Mixed voltage support
 - ✓ DMA support
 - ✓ Plug and Play support
- Socket and decode for BOOT ROM.
- Programmable power control for various programmable devices.
- Access to RIO and GPIO signals via a header.

VG469-EVAL Illustration



Functional Information

The VG469-EVAL is a standard plug-in PC bus card, jumper configurable for either an XT or an AT. In addition to the bus connector along the bottom of the board, along the outside edge of the board are ribbon cable connectors and a PCMCIA Card connector. The Drive bay board is 3.5 floppy form factor board containing ribbon cable connectors and a PCMCIA Card connector.

The board controls its PCMCIA sockets via a VG469 PC Card Socket Controller, silicon power switch, regulated VPP and 3.3V power supplies per socket. Both 5V and 3.3V PC Cards are supported in each socket.

The VG469-EVAL provides access to the non-ISA-bus signals of the PCMCIA 2.1/ExCA standard through a header. The VG469's general purpose input/output signals (AGPIO, BGPIO) are also accessible through a header.

On the board is also a jumper block for selection among various options. These options include AT/XT bus interface, mixed voltage/5V only card support, and controller cascading number (0 to 3)

Additional Information

Physical Specifications: 8.7" L x 4.8" W

Drive Bay: 6.5" L x 3.8" W

Electrical Specifications:
Input +5V±50% @150 mA
(with card power off)

Documentation:
VG469-EVAL User Manual

Software:
SystemSoft Socket Services and Card Services

Order Number:
VG469-EVAL

