

DATA SHEET

Form 1200-040813

Description

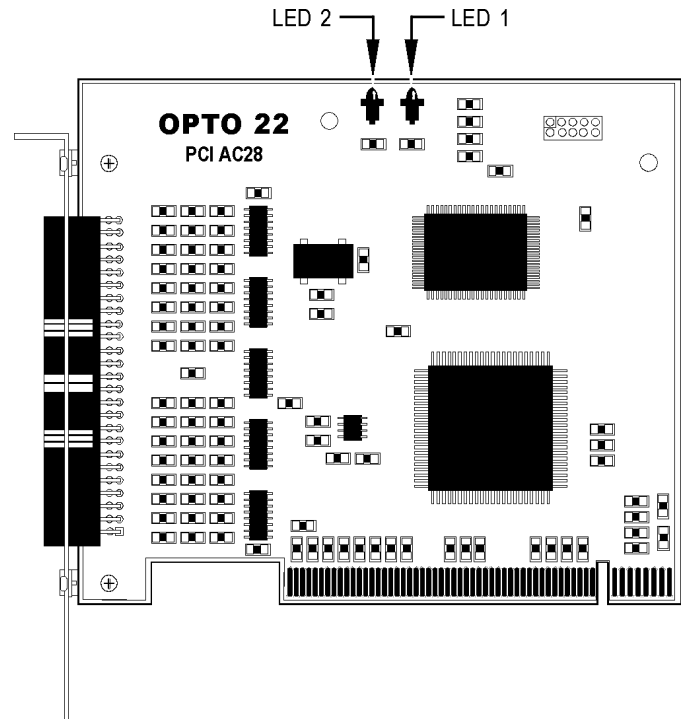
The PCI-AC28 is a high-speed adapter card designed to link the Pamux® bus to PCI-compatible computers. The PCI-AC28 is compatible with computers that feature a standard 33 MHz PCI bus. It is ideal for customers who have been using Opto 22's AC28 adapter card but must upgrade to a newer PC that uses the PCI rather than the ISA bus.

Each PCI-AC28 can access up to 512 points of I/O along a Pamux bus of up to 500 feet in length. Up to 32 PCI-AC28s can be installed in one PC, supporting up to 16,384 points of I/O. The PCI-AC28 includes a 50-pin male header connector and is compatible with HH-series flat-ribbon cable. The card requires 5 VDC @ 600 mA and operates at temperatures of 0° to 70° C. Configuration is jumperless, and two LEDs on the card indicate bus operation or user application status.

Free with the PCI-AC28 adapter card is the PCI Pamux Toolkit, included on the Opto 22 Adapter Card Toolkits CD, which is shipped with the card. The toolkit is also available on our Web site at www.opto22.com/products/softdevkits.asp. This developer toolkit includes sample applications, utility applications, and the PCI Pamux driver, which eliminates the need for separate driver programming. The PCI Pamux driver works with Microsoft® Windows® 95, Windows 98, Windows Me, Windows 2000, and Windows NT®. The driver is a dynamically linked library (DLL) that provides a set of functions that can be used with Microsoft Visual Basic® or Microsoft C++®.

For details on installing and using the PCI-AC28 and its PCI Pamux driver, see Opto 22 form #1195, *PCI-AC28 User's Guide*.

Part Number	Description
PCI-AC28	PCI bus to Pamux bus adapter card
ADAPTERCARDTOOLKITCD	PCI Pamux Developer Toolkit



Specifications

Power requirements	5 VDC @ 600 mA
Toolkit compatibility	32-bit, 33 MHz PCI bus, Microsoft Windows 95/98/Me, Windows NT/2000
PCI compliance	PCI Specification Revision 2.1
Opto 22 brain compatibility	B4, B5, B6, SNAP-B4, SNAP-B6
Jumpers	None; PCI configured
LEDs	Two

Products

Opto 22 produces a broad array of reliable, flexible hardware and software products for industrial automation, remote monitoring, enterprise data acquisition, and machine-to-machine (M2M) applications.

SNAP Ethernet Systems

Based on the Internet Protocol (IP), SNAP Ethernet systems offer flexibility in their network connectivity and in the software applications they work with. The physical network may be a wired Ethernet network, a cellular wireless network, or a modem. A wide variety of software applications can exchange data with SNAP Ethernet systems, including:

- Opto 22's own ioProject™ suite of control and HMI software
- Manufacturing resource planning (MRP), enterprise management, and other enterprise systems
- Human-machine interfaces (HMIs)
- Databases
- Email systems
- OPC client software
- Custom applications
- Modbus/TCP software and hardware.



SNAP Ethernet system hardware consists of controllers and I/O units. Controllers provide central control and data distribution. I/O units provide local connection to sensors and equipment.

SNAP OEM Systems

Opto 22 SNAP OEM I/O systems are highly configurable, programmable processors intended for OEMs, IT professionals, and others who need to use custom software with Opto 22 SNAP I/O modules.

Linux® applications running on these systems can read and write to analog, simple digital, and serial I/O points on SNAP I/O modules using easily implemented file-based operations. Applications can be developed using several common development tools and environments, including C or C++, Java, and shell scripts.



M2M Systems

Machine-to-machine (M2M) systems connect your business computer systems to the machines, devices, and environments you want to monitor, control, or collect data from. M2M systems often use wireless cellular communications to link remote facilities to central systems over the Internet, or to provide monitoring and control capability via a cellular phone.

Opto 22's Nvio™ systems include everything you need for M2M—interface and communications hardware, data service plan, and Web portal—in one easy-to-use package. Visit nvio.opto22.com for more information.

Opto 22 Software

Opto 22's ioProject and FactoryFloor® software suites provide full-featured and cost-effective control, HMI, and OPC software to power your Opto 22 hardware. These software applications help you develop control automation solutions, build easy-to-use operator interfaces, and expand your manufacturing systems' connectivity.



Quality

In delivering hardware and software solutions for worldwide device management and control, Opto 22 retains the highest commitment to quality. We do no statistical testing; each product is made in the U.S.A. and is tested twice before leaving our 160,000 square-foot manufacturing facility in Temecula, California. That's why we can guarantee solid-state relays and optically-isolated I/O modules *for life*.

Product Support

Opto 22's Product Support Group offers comprehensive technical support for Opto 22 products. The staff of support engineers represents years of training and experience, and can assist with a variety of project implementation questions. Product support is available in English and Spanish from Monday through Friday, 7 a.m. to 5 p.m. PST.

Opto 22 Web Sites

- www.opto22.com
- nvio.opto22.com
- www.internetio.com (live Internet I/O demo)

Other Resources

- OptoInfo CDs
- Custom integration and development
- Hands-on customer training classes.



About Opto 22

Opto 22 manufactures and develops hardware and software products for industrial automation, remote monitoring, enterprise data acquisition, and machine-to-machine (M2M) applications. Using standard, commercially available Internet, networking, and computer technologies, Opto 22's input/output and control systems allow customers to monitor, control, and acquire data from all of the mechanical, electrical, and electronic assets that are key to their business operations. Opto 22's products and services support automation end users, OEMs, and information technology and operations personnel.

Founded in 1974 and with over 80 million Opto 22-connected devices deployed worldwide, the company has an established reputation for quality and reliability.