OPTO 22

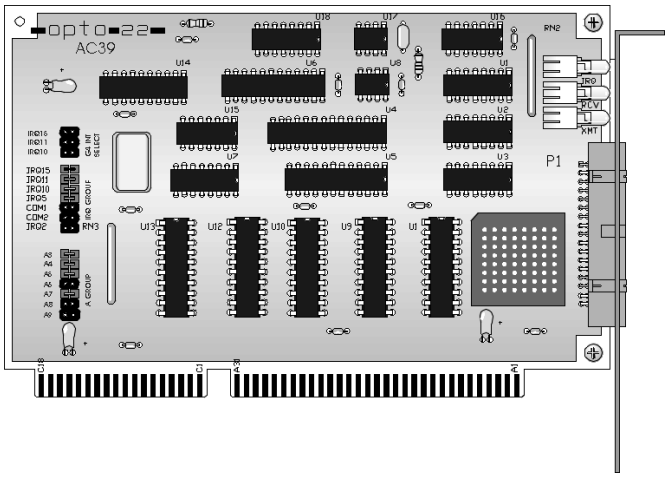
DATA SHEET

Form 539-010130

Part Number	Description
AC39	ISA Bus to Local Bus Adapter-AT

Description

The AC39 is a high-speed Model 200 Local Bus interface for AT class IBM compatible computers. The card provides a reliable communications channel to G4 Model 200 Local I/O units. The interface to the AT computer is deeply buffered to prevent loss of response data.



Features

- AT Class IBM Compatibles Only
- 256 Byte Receive Buffers
- Full G4 Interrupt Support
- Indicators for Transmit, Receive, and Interrupt
- Removable Terminator

Installation

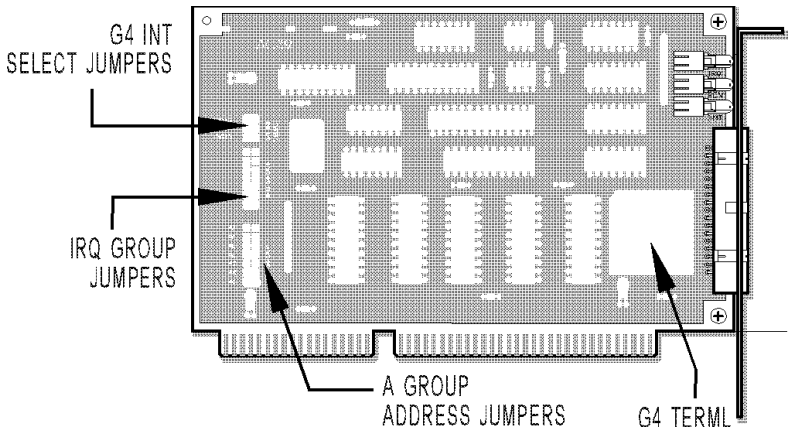
Port	Hex Address	A Group Jumpers							IRQ Group Jumper	G4 Int* Select Jumper
		A9	A8	A7	A6	A5	A4	A3		
COM1	3F8	0	0	0	0	0	0	0	COM1	IRQ15
COM2	2F8	0	X	0	0	0	0	0	COM2	IRQ15
COM3	348	0	0	X	0	X	X	0	IRQ2	IRQ15
COM4	340	0	0	X	0	X	X	X	IRQ5	IRQ15
COM5	248	0	X	X	0	X	X	0	IRQ10	IRQ15
COM6	240	0	X	X	0	X	X	X	IRQ11	IRQ15

X = Jumper installed.
0 = Jumper not installed.
* Only install if needed.

BY-STEP INSTALLATION PROCEDURE

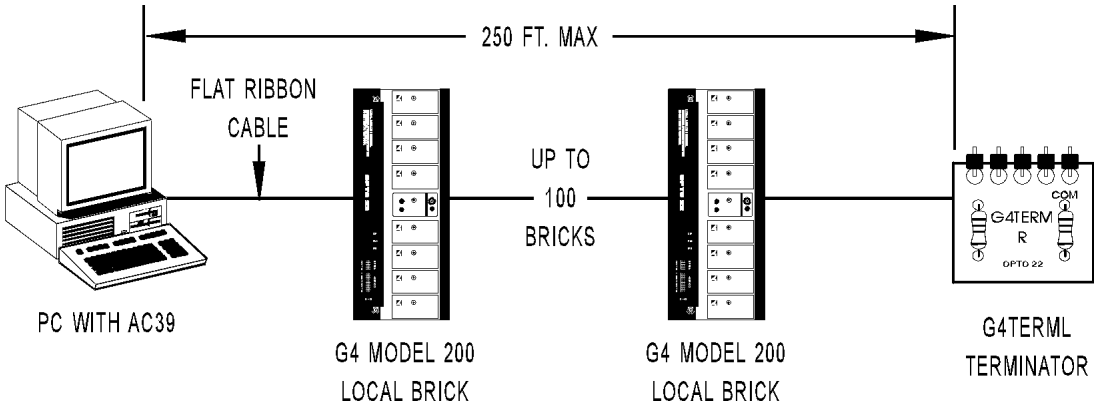
1. Select communications port you want.
2. Install address and IRQ Jumpers.
3. If G4 interrupt capability is needed, install G4 Int Jumper.
4. Turn off computer; remove computer case and install adapter card in 16-bit slot.
5. Run ACTEST.EXE program. This is available on the diskette included with all adapter cards.
6. If adapter passes test, reassemble your computer. If it fails, check your work!

LOCATION DRAWING

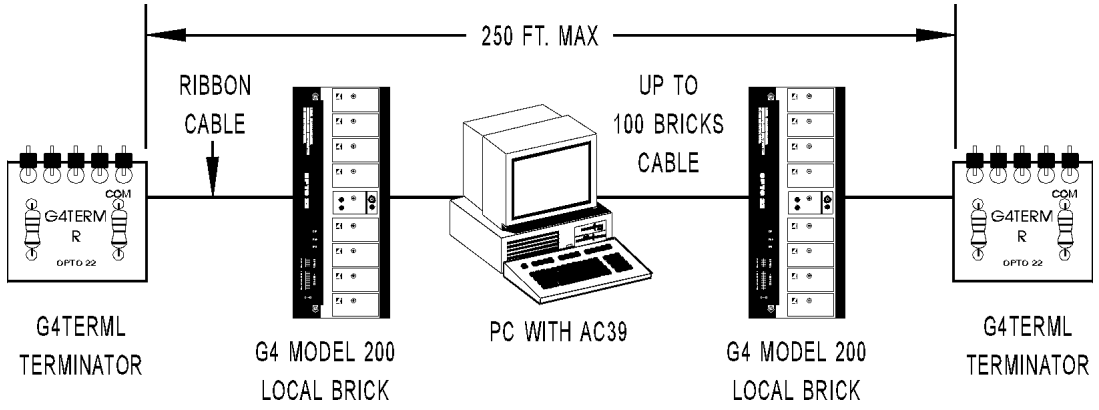


SYSTEM I WIRING

The AC39 requires a 34-pin flat ribbon cable. This cable should never exceed 250 feet. For operation in high noise environments or with high capacitance shielded cables, the maximum distance is 100 feet. All wiring must be terminated at both ends of the cable. In most cases, the IBM adapter will be one of the ends.



SYSTEM II WIRING



When AC39 is not at physical end of ribbon cable, you should install the G4TERML terminator at the two G4 Model 200 Local Bricks at the physical end of the cable.

More About OPTO 22

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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 85 million Opto 22-connected devices deployed worldwide, the company has an established reputation for quality and reliability.

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