GE Genius I-O Series Service Manual

IC660ELB931

1. Description

IC660ELB931 is a PCI Interface Card for the Genius LAN interface. IC660ELB931 complies with Rev 2.2 of PCI Local Bus Specification and manages all interface and protocol tasks associated with the Genius bus communications. IC660ELB931 offers an intelligent interface between a single channel general purpose controller interface to the GE serial bus and a PCI slot in a PC compatible computer.

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**Genius I-O**
Part	**Number IC660ELB931**
Product	**Description PCI Genius Card**
Compatibility	**Genius LAN Interface**
Status	**LEDs GENI OK, COMM OK**
Power	**Requirement 5 Volts DC**
Ambient	**Operating Temperature 0 to 60 degrees Celsius**
Humidity	**5% to 95%, non-condensing**
Weight	**3 Pounds**
Certifications	**UL, CE Description**
The	**IC660ELB931 PCI Genius Interface Card is a PCI interface card made by GE Fanuc in the Genius I/O series. It helps to integrate the PC-compatible computer's PCI slot and single-channel general-purpose controller interface with the Genius serial bus device. The IC660ELB931 PCI Genius Interface Card is compatible with all of the Genius bus communication protocols. The main responsibility of the interface card is to provide the facilities to interface third-party devices such as PLCs, I/O blocks, and CPUs with Genius bus devices. The faceplate of the PCI card has 4-pin right-angle male terminal box connector that has shield out, shield in, Serial 1, and Serial 2 pin**

3. Product Information

IC660ELB931 is a PCI Interface Card for the Genius LAN interface. IC660ELB931 complies with Rev 2.2 of PCI Local Bus Specification and manages all interface and protocol tasks associated with the Genius bus communications. IC660ELB931 offers an intelligent interface between a single channel general purpose controller interface to the GE serial bus and a PCI slot in a PC compatible computer.

The IC660ELB931 card is fully compatible with a handheld monitor and may be used with any GE Fanuc Genius bus controller. IC660ELB931 uses 8,000 input and 8,000 output references. If the configuration of the IC660ELB931 card has been set as input-only, then it will only read Genius block information. If the configuration of the IC660ELB931 card is as output-only, then it will only write to Genius block outputs. IC660ELB931 provides means for third parties to interface the Genius I/O Blocks on the Genius bus, PLC, or CPU. The IC660ELB931 PCI Genius card features a 4-pin right angle male terminal box connector with holding screws for the Genius I/O interface. Two LEDs that are easily located on the faceplate indicate the single channel (GENI OK and COMM OK).

The IC660ELB931 PCI Genius card provides comparable functionality to earlier generations of PC-based Genius cards such as the PCIM. However, it is not a direct replacement. IC660ELB931 handles all interface and protocol tasks associated with Genius bus communications in a compact form factor utilizing a standard Personal Computer (PC) as a host. It provides an interface to and communication with GE PLCs or Genius I/O Blocks that reside on the Genius bus. IC660ELB931 is available in the following Code Variations: GEFIC660ELB931, CIMIC660ELB931, and 1C660ELB931. The IC660ELB931 PCI Genius Card is a GE Fanuc PCI interface card designed for the Genius LAN Interface. It comes with a 4-pin right-angle male terminal box connector and 2 LED indicators. It weighs 3 pounds. Technical specifications for IC660ELB931

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The IC660ELB931 PCI Genius Interface Card is a PCI interface card made by GE Fanuc in the Genius I/O series. It helps to integrate the PC-compatible computer's PCI slot and single-channel general-purpose controller interface with the Genius serial bus device. The IC660ELB931 PCI Genius Interface Card is compatible with all of the Genius bus communication protocols. The main responsibility of the interface card is to provide the facilities to interface third-party devices such as PLCs, I/O blocks, and CPUs with Genius bus devices. The faceplate of the PCI card has 4-pin right-angle male terminal box connector that has shield out, shield in, Serial 1, and Serial 2 pins to interface with Genius I/O. It also accommodates a DIP switch and a bus connector for easy configuration.

The IC660ELB931 PCI Genius Interface Card can be plugged into the PCI slot of a compatible personal computer. The DIP switch of the module is useful to configure the terminal resistance of the Genius bus. It has 2 LED status indicators for displaying the status of the operation and communication processes of the module. The "Communication OK" LED starts flashing if there is an error while the card is sending and receiving data on the genius serial bus. The "Genius OK" LED turns on if the required power level is available on the card and if the card passes the onboard self-diagnostics test. The IC660ELB931 PCI Genius Interface Card can communicate with up to 32 devices at a 153.6 Kbaud standard baud rate. Its onboard DIP switch offers 75, 100, 120, or 150 Ohms of selectable bus termination resistance. The network cable that is required is a daisy-chain bus cable with single twisted pair cable and a shield cable. It has UL 508/C-UL, UL 1604C-UL, and CE certifications that are required to meet industrial standards.