GE Genius I-O Series Service Manual

IC660ELB922

1. Description

IC660ELB922 is an ISA Interface Card manufactured for the Genius LAN interface by GE Fanuc. IC660ELB922 supports two independent LANS up to 7500 feet each. IC660ELB922 is compatible with a handheld monitor (HHM). Any GE Fanuc Genius bus controller may be coupled with an IC660ELB922 card. IC660ELB922 is compatible with all the other Genius protocols at all levels. The IC660ELB922 card uses 8,000 inputs and 8,000 outputs. When the card is configured as input-only, it can only read Genius block inf

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**Genius I-O**
Part	**Number IC660ELB922**
Product	**Description PC Interface Module**
Number	**of Channels 2**
Number	**of Slots Single-slot**
Board	**Type AT Style**
Power	**Requirement 5 Volts DC, 400 milliamps**
Bus	**Loading 1 LS TTL load per input line**
Bus	**Drive Capability 10 LS TTL load per output line**
Status	**LEDs 2 (for each daughterboard)**
Ambient	**Operating Temperature 0 to 60 degrees Celsius**
Weight	**3 Pounds Description**
The	**IC660ELB922 PC Interface Module is a single-slot, XT/AT interface board from GE Fanuc in the Genius I/O. It comes with a motherboard and 2 daughterboards. The communication between the daughterboards and the host bus is established through the motherboard. Some of the features of the daughterboards include fault management for up to 30 bus devices, updating the I/O controller image continuously, communication with other components in the Genius I/O PLC system, and providing the IBM PC bus optimized RAM. The motherboard comes with a watchdog timer which helps to mo**

3. Product Information

IC660ELB922 is an ISA Interface Card manufactured for the Genius LAN interface by GE Fanuc. IC660ELB922 supports two independent LANS up to 7500 feet each. IC660ELB922 is compatible with a handheld monitor (HHM). Any GE Fanuc Genius bus controller may be coupled with an IC660ELB922 card. IC660ELB922 is compatible with all the other Genius protocols at all levels. The IC660ELB922 card uses 8,000 inputs and 8,000 outputs. When the card is configured as input-only, it can only read Genius block information. When configured as output-only, it can only write to Genius block outputs. IC660ELB922 is also an entry point into the Genius I/O System for the IBM PC/AT/XT series. Being an AT type computer, IC660ELB922 is by default designed to be integrated into a user-developed microprocessor.

The IC660ELB922 provides the host computer with a full-function bus controller for Genius I/O networks. IC660ELB922 is available in both PC-104 and VME form factor. IC660ELB922 is a replacement of the IC660ELB906 two-slot card and is available with two daughterboards. The role of each daughterboard is to provide low cost tap on the Genius I/O bus. This setup also allows the host computer to control remote I/O using the wide diagnostics, high dependability, and noise protection of the Genius I/O System. Daughterboards may be configured independently thanks to the configuration software supplied with the IC660ELB922. To connect IC660ELB922 to the Genius bus, board-edge connectors are used. Since IC660ELB922 has two daughterboards, they can be connected to the same bus or to independent buses. IC660ELB922 is available in three product code variations: GEFIC660ELB922, CIMIC660ELB922 and 1C660ELB922. The IC660ELB922 PC Interface Module is a dual-channel PCIM made by GE Fanuc. It comes with a single slot and an AT-style board. It operates on 5 Volts DC and 400 milliamps of power, and it weighs 3 pounds. Technical specifications for IC660ELB922

Brand GE Fanuc

Series Genius I-O

Part Number IC660ELB922

Product Description PC Interface Module

Number of Channels 2

Number of Slots Single-slot

Board Type AT Style

Power Requirement 5 Volts DC, 400 milliamps

Bus Loading 1 LS TTL load per input line

Bus Drive Capability 10 LS TTL load per output line

Status LEDs 2 (for each daughterboard)

Ambient Operating Temperature 0 to 60 degrees Celsius

Weight 3 Pounds Description

The IC660ELB922 PC Interface Module is a single-slot, XT/AT interface board from GE Fanuc in the Genius I/O. It comes with a motherboard and 2 daughterboards. The communication between the daughterboards and the host bus is established through the motherboard. Some of the features of the daughterboards include fault management for up to 30 bus devices, updating the I/O controller image continuously, communication with other components in the Genius I/O PLC system, and providing the IBM PC bus optimized RAM. The motherboard comes with a watchdog timer which helps to monitor the system operation in order to shut down the daughterboard if a fault occurs in the host bus system. The board-edge connectors can be used to connect this module with the Genius bus.

The IC660ELB922 dual-channel PC interface module has 2 status indicator LEDs on the faceplate of the daughterboard that are the “Board OK” LED and the “Module OK” LED. This PCIM is compatible with the IBM XT, AT, and CIMSTARI-supporting computers. A handheld monitor can be connected to the module by using an external genius connector. It comes with configurable software for configuring the module easily. The software includes the C language-compatible and the Basic language-compatible library package which offers a high-level interface between the application that the users have developed and the PC interface module. This dual-channel PCIM draws 1.5 Amps of current and uses a 5 Volts DC power source. The motherboard of the PCIM uses 4 bytes of mapped memory space. Each daughterboard of the module has 16 KB of host memory. In order to successfully configure the PCIM and Genius I/O host communication setup, an IBM XT/AT compatible personal computer and the IC660ELB922 PCIM are required.