GE Versamax Series Service Manual

IC200EBI001

1. Description

The IC200EBI001 is a Network Interface Unit (NIU) from the VersaMax Programmable Logic Controller (PLC) product family. This module is manufactured by Emerson automation, formerly by GE Fanuc. This module functions as an ethernet slave module, hosting and controlling I/O modules for implementing distributed I/O architecture.

2. Specifications

Specification	Value
Brand	**GE Intelligent Platforms/GE Fanuc**
Series	**Versamax**
Manufacturer	**Emerson Automation / GE Fanuc (former)**
Part	**Number IC200EBI001**
Series	**VersaMAx**
Product	**type Ethernet Network Interface Unit**
No.	**of communication ports One (1) Ethernet port**
Bulletin	**IC200**
Supported	**transmission rate 10/100 mbps; auto-negotiation**
Product	**Type Ethernet Network Interface Unit**
Ethernet	**topology Linear / Point-to-Point**
LED	**Indicators 5**
Maximum	**distances between nodes 100 meters**
Mounting	**DIN Rail**
Connector	**RJ45**
Number	**of Modules 8 per NIU/Station**
Cable	**Type CAT 5**
Weight	**0.14 Kg**
No.	**of I/O modules Release 1: 8 I/O modules without expansion racks Release 1.01 or later: 64 I/O modules with 7 expansion racks**
Dimensions	**13.34 x 8.59 cm**
No.	**of Discrete I/O 1024**
Diagnostics	**Data 4 User**
No.	**of discrete inputs 512**
Network	**Dependent Yes**
No.	**of discrete outputs 512**
Transmission	**Media Ethernet Twisted Pair**
LED	**indicators PWR; OK; FAULTS; LAN; STAT**
The	**IC200EBI001 is an Ethernet Network Interface Unit (ENIU) from the Ve**

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Technical specifications for IC200EBI001

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Series Versamax

Manufacturer Emerson Automation / GE Fanuc (former)

Part Number IC200EBI001

Series VersaMAx

Product type Ethernet Network Interface Unit

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Bulletin IC200

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No. of discrete inputs 512

Network Dependent Yes

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Transmission Media Ethernet Twisted Pair

LED indicators PWR; OK; FAULTS; LAN; STAT

The IC200EBI001 is an Ethernet Network Interface Unit (ENIU) from the VersaMax series that is manufactured by GE Fanuc, now Emerson Automation. The module’s primary function is to interface I/O modules over the ethernet network and act as local controller to the hosted I/O modules. This allows implementation of distributed I/O architecture. The IC200EBI001 is available in Two (2) releases. Module version 1.0 supports installation of up to 8 I/O modules without support for expansion rack however, Module release 1.1 and later modules can support up to 64 I/O and allows installation of up to 7 expansion racks. It supports up to 1024 bytes of I/O where up to 512 bytes of inputs and 512 bytes of outputs can be configured as well as fault data amounting to 128 bytes. The IC200EBI001 can be assigned with any valid IP address, depending on the network that this module will be part of. The module’s default IP address is 195.0.0.x with x depicting the position assigned by the rotary switches. For configuration of IP address, the provided Three (3) rotary switches labelled as X1, X10 and X100 are set to provide IP address to this module. Alternatively, IP address may be defined with the use of the DOS command prompt using the arp-s command. The IC200EBI001 is provided with a single Ethernet communication interface that supports 10/100 mbps transmission speed with auto-negotiation capability. This module comes with module LED status indicators such as PWR, OK and FAULTS. Communication LED status indicators are also embedded such as LAN and STAT.

The IC200EBI001 Ethernet Network Interface Unit (ENIU) is a product of GE Intelligent Platforms/GE Fanuc and part of the Versamax series. The ENIU is categorized as an Ethernet slave module that operates as a controller for a set of input and output modules. The GE Fanuc IC200EBI001 Unit requires the power supply to be installed directly on it. It features 5 LED indicators for showing the status of the module as well as its components. The best thing about this module is its simple and straightforward installation process where the operator only need to click the unit into place. While installing the power source for this Ethernet Network Interface Unit, the latch should be in an unlocked position. Also, all the connectors as well as the latch post need to be aligned. After pressing the power supply module down and the 2 tabs are clicked into place, the latch needs to be in a locked position to enhance the security of the power supply. The GE Fanuc Versamax IC200EBI001 Ethernet Network Interface Unit can be configured automatically, but the configuration settings can also be stored through programming software. The module is automatically configured by the IC200EBI001 ENIU in the input and output station when the powerup is initiated for the first time. The auto-configuration ceases if the module experiences a fault, or at the first empty slot in the system. However, if the auto-configuration process fails, it is essential to clear the entire existing configuration setup. This process is executed through the disconnection of the power from the ENIU and by disconnecting the Ethernet Network Interface Unit from the first input and output carrier.