GE Service Manual

IC754VSB06MTD

1. Description

The IC754VSB06MTD is a QuickPanel View Operator terminal. It is part of the Visualization product catalog that is manufactured by GE Fanuc. It functions as a Human Machine Interface (HMI), featuring a monochrome display measuring 5.75 inches with a resolution of 320 x 240 pixels. It comes with a Touchscreen operator interface; It has an Intel XScale PXA255 200 MHz CPU, Integrated memory that is comprised of 16 MB Flash, 16 MB DRAM, and 512 KB ROM. For communication, this device has Ethernet, RS2

2. Specifications

Specification	Value
Manufacturer	**GE Fanuc Emerson**
Product	**Type Human Machine Interface (HMI)**
Product	**Line Quickpanel**
Part	**Number IC754VSB06MTD**
Weight	**2.00 lbs (0.91 kg)**
Product	**Family QuickPanel View, Basic**
Display	**Size 6"**
Display	**Color Monochrome**
Processor	**Intel XScale PXA255, 200 Mhz**
Input	**Type Touchscreen**
Display	**Resolution 320 x 240 pixels**
Communication	**RS232 and RS485**
Display	**Type Passive FSTN**
Clock	**Speed 200 MHz**
Input	**Power 12 - 30 VDC**
Bezel	**Round Bezel**
Bezel	**Material Valox 3706**
Operator	**Input Resistive, 12 bit**
Membrane	**Material Lexan HP60**
Memory	**32 MB**
Integral	**Memory FLASH: 16 MB DRAM: 16 MB ROM: 512 KB (Boot loader)**
Communication	**Cable HMI-CAB-CS2**
Interface	**One (1) Ethernet interface; One (1) Serial EIA232C/EIA485, DP25S**
Resolution	**320 x 240 pixels**
Operating	**System (OS) Windows CE Operating System**
Power	**Supply 12 to 30 VDC**
Terminal	**memory 16 MB Flash; 16 MB DRAM; 512 KB ROM**
Product	**Lifecycle Status* Discontinued/Obsolete**
Communication	**ports Ethernet; RS232 / RS485**
Supply	**Voltage 24 VDC**
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3. Product Information

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Technical specifications for IC754VSB06MTD

Manufacturer GE Fanuc Emerson

Product Type Human Machine Interface (HMI)

Product Line Quickpanel

Part Number IC754VSB06MTD

Weight 2.00 lbs (0.91 kg)

Product Family QuickPanel View, Basic

Display Size 6"

Display Color Monochrome

Processor Intel XScale PXA255, 200 Mhz

Input Type Touchscreen

Display Resolution 320 x 240 pixels

Communication RS232 and RS485

Display Type Passive FSTN

Clock Speed 200 MHz

Input Power 12 - 30 VDC

Bezel Round Bezel

Bezel Material Valox 3706

Operator Input Resistive, 12 bit

Membrane Material Lexan HP60

Memory 32 MB

Integral Memory FLASH: 16 MB DRAM: 16 MB ROM: 512 KB (Boot loader)

Communication Cable HMI-CAB-CS2

Interface One (1) Ethernet interface; One (1) Serial EIA232C/EIA485, DP25S

Resolution 320 x 240 pixels

Operating System (OS) Windows CE Operating System

Power Supply 12 to 30 VDC

Terminal memory 16 MB Flash; 16 MB DRAM; 512 KB ROM

Product Lifecycle Status* Discontinued/Obsolete

Communication ports Ethernet; RS232 / RS485

Supply Voltage 24 VDC

* The GE Fanuc Emerson IC754VSB06MTD has been discontinued by the manufacturer, however we specialize in obsolete parts and can likely still supply surplus and/or refurbished replacement IC754VSB06MTD units instead of migration.

Description

The IC754VSB06MTD is an industrial device that is manufactured by GE Fanuc automation. This is specifically a Human Machine Interface (HMI) that is used to provide machine and process visualization. It allows machine users and process operators to visualize and control the process from a central, convenient location. The IC754VSB06MTD is provided with a Windows CE.NET operating System (OS). This OS provides a familiar configuration environment as this OS is a subset of the standard Microsoft Windows OS. It enables standard control commands and actions such as file management, command prompt, and other Windows OS features. This HMI is provided with an Intel XScale PXA255 with a clock speed of 200 Mhz. The integrated memory available to this HMI includes 16 MB Flash memory that functions as the non-volatile memory; 16 MB Dynamic Random Access Memory (DRAM) and 512 KB Read-Only memory (ROM) that hosts the boot loader partition. The IC754VSB06MTD is a monochrome display terminal with 320 x 240 pixels display resolution. These same display components are installed with touch-sensitive cells that enable the touch input capability of the HMI. For communication with partner Programmable Logic Controllers (PLC), the IC754VSB06MTD comes with a One (1) RJ45 interface that is compatible with Ethernet I/P protocol at a transmission speed of 10/100 Mbps at a maximum cable length per segment of 100 meters. Additionally, an RS232 / 485 combo port is also provided via the 9-pin D-shell connector, intended for establishing point-to-point or daisy-chain connections. This RS232 interface comes with a built-in 1.0A, 125V fast blow cartridge type, Littlefuse with part number 154001.

The General Electric (GE) FANUC IC754VSB06MTD is an operator terminal from the QuickPanel View series that features a monochrome resistive touchscreen display. To be precise, this terminal has a passive FSTN display that features 256 shades of grayscale graphics. This display measures 5.75 inches (diagonally) and has a resolution of 320 x 240. A non-field-replaceable CCFL backlight with a 100 Nits luminance is installed on this terminal and it has a rated half-life of 50,000 hours. Also, present on the IC754VSB06MTD terminal are LED status indicators, specifically a red/green power status indicator on the left side and a programmable tri-color status indicator on the right side. The IC754VSB06MTD terminal runs on an input voltage ranging from 12 to 30 Volts DC, with a power dip tolerance of -30% nominal input voltage at 10 milliseconds. Its enclosure has a rating of NEMA Type 4/4X/12 and it should only run when its ambient temperature is between -10 and 60 degrees Celsius. When storing the terminal, make sure that its temperature falls between -20 and 70 degrees Celsius. The processor used on the IC754VSB06MTD terminal is an Intel XScale PXA255 processor that has a 200 MHz clock speed. Its available memory consists of a 512 KB bootloader ROM, 16 MB DRAM, and 16 MB Flash memory. The ports available on this terminal are a 10/100 Ethernet port and a serial COM1 port. This terminal also features a calendar/clock that has a 1-second resolution and an accuracy rating of +/- 2 to 3 minutes per month. Operators can only use a BR2032 lithium battery with the IC754VSB06MTD terminal. The approximate shipping weight and dimensions are 5 pounds and 14 x 12 x 10 inches.