GE Service Manual

IC754VSL12CTD

1. Description

The IC754VSL12CTD is a QuickPanel View device that is manufactured by Emerson Automation, formerly by GE Fanuc Automation. It features a Windows Compact Embedded (CE) operating system and loaded with Proficy Machine Edition Software. It has 12-inch colored display screen in 32,768 colors with resolution of 800 x 600 pixels. It has a Valox 357U bezel material and comes with an analog resistive touchscreen interface. It is built with an Intel XScale PXA255 processor with clock speed of 400 MHz, 64

2. Specifications

Specification	Value
Manufacturer	**GE Fanuc Emerson**
Product	**Type Operator Interface Terminal**
Product	**Line Quickpanel**
Part	**Number IC754VSL12CTD**
Weight	**5.31 lbs (2.41 kg)**
Product	**Family QuickPanel View, Loaded**
Processor	**Intel XScale PXA255, 400 Mhz**
Operation	**Microprocessor-based**
Display	**Size 12"**
Storage	**32 MB**
Display	**Resolution 800 x 600 pixels**
Sofware	**Proficy Machine Edition**
Display	**Type Colored Thin Film Transistor (TFT)**
Operator	**Input Resistive, 12 bit**
Display	**Color Colored**
Integral	**Memory FLASH: 32 MB SRAM: 512KB (power off retention is the life of the battery) DRAM: 32MB ROM 512 KB (Boot loader)**
Resolution	**800 x 600**
Memory	**expansion slot 100 pin DIMM**
Input	**Voltage 12/24V DC**
Memory	**Type SDRAM**
Compatible	**memory modules IC754ACC32MEM (32MB); IC754ACC64MEM (64 MB)**
Interface	**Two (2) Ethernet interface, One (1) Serial EIA232C/EIA485, DP25S combo port, One (1) RS232 port Two (2) USB Interfaces**
Operating	**System (OS) Windows CE Operating System**
Power	**Supply 12 to 30 VDC**

3. Product Information

The IC754VSL12CTD is a QuickPanel View device that is manufactured by Emerson Automation, formerly by GE Fanuc Automation. It features a Windows Compact Embedded (CE) operating system and loaded with Proficy Machine Edition Software. It has 12-inch colored display screen in 32,768 colors with resolution of 800 x 600 pixels. It has a Valox 357U bezel material and comes with an analog resistive touchscreen interface. It is built with an Intel XScale PXA255 processor with clock speed of 400 MHz, 64 MB Flash Memory, 512KB SRAM, 32 MB DRAM, 512KB Boot loader. For communication, it is provided with Two (2) Ethernet interface, One (1) Serial combo port supporting EIA232C/EIA485, DP25S standards and One (1) RS232 dedicated port Two (2) USB Interfaces.

Technical specifications for IC754VSL12CTD

Manufacturer GE Fanuc Emerson

Product Type Operator Interface Terminal

Product Line Quickpanel

Part Number IC754VSL12CTD

Weight 5.31 lbs (2.41 kg)

Product Family QuickPanel View, Loaded

Processor Intel XScale PXA255, 400 Mhz

Operation Microprocessor-based

Display Size 12"

Storage 32 MB

Display Resolution 800 x 600 pixels

Sofware Proficy Machine Edition

Display Type Colored Thin Film Transistor (TFT)

Operator Input Resistive, 12 bit

Display Color Colored

Integral Memory FLASH: 32 MB SRAM: 512KB (power off retention is the life of the battery) DRAM: 32MB ROM 512 KB (Boot loader)

Resolution 800 x 600

Memory expansion slot 100 pin DIMM

Input Voltage 12/24V DC

Memory Type SDRAM

Compatible memory modules IC754ACC32MEM (32MB); IC754ACC64MEM (64 MB)

Interface Two (2) Ethernet interface, One (1) Serial EIA232C/EIA485, DP25S combo port, One (1) RS232 port Two (2) USB Interfaces

Operating System (OS) Windows CE Operating System

Power Supply 12 to 30 VDC

Description

The IC754VSL12CTD is a Human Machine Interface (HMI) device that is part of the QuickPanel View product series. This is an electronic device that is previously manufactured by GE Fanuc Automation, now, Emerson Automation. This operator terminal comes with modern communication ports and but retained the traditional point-to-point interfaces. This operator terminal is powered by a supply voltage range of 12-30 VDC with real power consumption of 48 Watts. This operator terminal has removable Phoenix type connectors. When wiring power connection to the terminal, recommended wire size is 12-18 American Wire Gauge (AWG). This device must be properly grounded to ensure reliable operation. The IC754VSL12CTD display screen is a Thin Film Transistor (TFT) display installed a CCFL backlight and an array of touch sensitive cells, distributed in horizontal and vertical positions specifically, 800 touch cells on the x-axis and 600 touch cells on the Y-axis. This QuickPanel View has a Bezel material made of Valox 357U while the membrane material is Lexan HP60. The IC754VSL12CTD is a microprocessor-based device. Installed with an Intel Xscale PXA255 with clock speed of 400 MHz, it is expected to operate smoothly for a long duration. It is also provided with a comprehensive on-board memory, individually partitioned according to memory type. On board memory includes 32 MB Flash Memory, 512KB SRAM, 32 MB DRAM, 512KB Boot loader. It also has Two (2) Ethernet ports supporting multi-node communication and Serial communication ports that is compatible for use with RS232 Point to point connection and RS485 daisy chain topology.

The IC754VSL12CTD terminal is a display terminal manufactured by GE Fanuc Automation. It belongs to the Quickpanel product line and it operates as a microprocessor-based operator interface terminal. It comes with an innovative and flexible design with a memory capacity of 32 MB that stores all of the applications. The IC754VSL12CTD touchscreen terminal supports the Proficy Machine Edition software that creates a scalable and flexible operator interface for providing enhanced performance. The communication and user application with this display terminal is established by using the software package. This display terminal communicates with various devices through the use of communication expansion cards as well as Ethernet and serial communication methods. In addition, this unit can also migrate the user applications easily by using the QuickDesigner software package. The GE Fanuc IC754VSL12CTD Operator Interface Terminal communicates with various industrial machines through the serial interface. Its configuration can be done in just a few steps. This display terminal comes with a tri-color LED that provides status updates along with an integrated buzzer that indicates the audio signal. The unit operates at an ambient temperature of 0 to 50 degrees Celsius. In addition to the main features, the display size of this unit measures 12.1 inches, it is a color TFT display screen, and it has a resolution of 800 x 600 pixels with a DRAM capacity of 32 MB. It features 12/24 Volts DC input voltage, with approximate dimensions of 13.26 x 10.34 x 0.38 inches. The dynamic memory contains the user programs and the operating system. This module comes with all the necessary accessories including a mounting bracket, power and serial connectors, protective sheets, and a battery. This operator interface is used in controlling and monitoring industrial machines like robots, PLC systems, and CNC systems.