GE Service Manual

IC755CSS15CDA

1. Description

The IC755CSS15CDA is a QuickPanel+ device that is manufactured by Emerson Automation, formerly by GE Fanuc Automation. It features a Windows Compact Embedded (CE) version 7 operating system with 15-TFT inch colored display screen with resolution of 1024 x 768. It has a with a resistive touchscreen interface. It is built with a Freescale i.MX535 1GHz processor with 1GB DDR3 SDRAM; 512MB SLC NAND Flash and 512KB Battery Backed SRAM. For communication, it is provided with Two (2) Ethernet interface

2. Specifications

Specification	Value
Manufacturer	**GE Fanuc Emerson**
Product	**Type Human Machine Interface (HMI)**
Product	**Line Quickpanel**
Part	**Number IC755CSS15CDA**
Weight	**10.00 lbs (4.54 kg)**
Description	**Operator Interface Terminal**
Screen	**Size 15 inches**
Resolution	**1024 x 768 pixels**
Processor	**Freescale i.MX535 1GHz based on ARM Cortex A8**
Screen	**Type Capacitive**
Display	**Size 15"**
Serial	**Port 2**
Display	**Resolution 1024 x 768 SVGA**
USB	**Port 2**
Display	**Type Projected Capacitive Display**
Audio	**Out 1**
Operator	**Input Multi-touch**
Operating	**System Windows 7**
Integral	**Memory 1 GB SDRAM; 512 MB SLC NAND FLASH; 512 KB Battery Backed SDRAM**
Temperature	**0 to 55 degrees Celsius**
Communication	**Interface Two (2) Ethernet interface; One (1) RS232; One (1) RS485;**
Power	**Consumption 30 Watts**
USB	**Ports 2x USB 2.0 (Type-A); 1x USB 2.0 (Mini Type-B)**
Operating	**System (OS) Windows CE Operating System version 7**
Power	**Supply 12 / 24 VDC**
Status	**Indicators Tri-color LED (Amber/Green/Red); On-board Buzzer**
Functionalities	**HMI; PLC; Process controller; Data Historian; G**

3. Product Information

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Technical specifications for IC755CSS15CDA

Manufacturer GE Fanuc Emerson

Product Type Human Machine Interface (HMI)

Product Line Quickpanel

Part Number IC755CSS15CDA

Weight 10.00 lbs (4.54 kg)

Description Operator Interface Terminal

Screen Size 15 inches

Resolution 1024 x 768 pixels

Processor Freescale i.MX535 1GHz based on ARM Cortex A8

Screen Type Capacitive

Display Size 15"

Serial Port 2

Display Resolution 1024 x 768 SVGA

USB Port 2

Display Type Projected Capacitive Display

Audio Out 1

Operator Input Multi-touch

Operating System Windows 7

Integral Memory 1 GB SDRAM; 512 MB SLC NAND FLASH; 512 KB Battery Backed SDRAM

Temperature 0 to 55 degrees Celsius

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Power Consumption 30 Watts

USB Ports 2x USB 2.0 (Type-A); 1x USB 2.0 (Mini Type-B)

Operating System (OS) Windows CE Operating System version 7

Power Supply 12 / 24 VDC

Status Indicators Tri-color LED (Amber/Green/Red); On-board Buzzer

Functionalities HMI; PLC; Process controller; Data Historian; Gateway

Programming languages Ladder Diagram (LD); Function Block Diagram (FBD); Structured Text (ST); Instruction List (IL); Sequential Function Chart (SFC)

Bezel With manufacturer monogram

Description

The IC755CSS15CDA is a QuickPanel+ Operator Interface (OI) being manufactured by Emerson Automation. This device is a microprocessor based OI and hosts a licensed instance of Microsoft Windows Embedded Compact 7 Operating System (OS). The device processor is a Freescale i.MX535 with clock frequency of 1GHz. It also comes with a 2D/3D Graphics processing unit and NEON SIMD Media accelerator. Additionally, it is installed with a Vector floating point coprocessor. The IC755CSS15CDA has a bezel with the manufacturer branding written. The display screen available to this device is a 15-inch projected capacitive display with multi-touch screen interface. It has an SVGA resolution of 1024 x 768. For connection to controllers or other automation devices, the IC755CSS15CDA has Two (2) serial interface with One (1) interface supporting RS232 point to point connection while the other interface supporting RS485 daisy-chain topology. Connectivity to modern network and devices is made possible by the built-in dual Ethernet interfaces that supports 10/100 mbps transmission speed. External peripherals may also be installed to this device such as mouse and keyboard for alternative input interfaces; USB Flash drive for external data storage and USB enabled printers. Additionally, it also supports use of Secure Digital Cards (SD cards) that may function as additional storage location. The IC755CSS15CDA carries certification and compliance from multiple certifying bodies such as UL 60950, CE (EN 60950-1, EN 61000-6-4, 61000-6-2), FCC Part15 Class A, IP65F (JEM 1030), CUL Mark - US/CAN Zone 2, ATEX Zone 2*, NEMA 4X and RoHS. The device' cooling methodology is natural convection with operating temperature of 0degrees C to +55degrees C.

The IC755CSS15CDA terminal is a GE Fanuc plug and play terminal. It has screen size of 15 inches and it uses a projected capacitive screen. It offers a multi-touch control option. An ARM Cortex A8 processor is present in the terminal for all of its processing and operation needs. The operator terminal runs with 24 Volts DC voltage. The terminal has a GE monogram bezel and it comes in a small enclosure. The conformally-coated enclosure can be installed even in small spaces by using a mounting gasket. This 15-inch quick panel has a display resolution of SVGA 1024 x 768 pixels. The rear side of the terminal comes with serial I/O ports with an RS-232 5-pin connector and a single RS-485 communication port. For additional peripheral devices, the IC755CSS15CDA terminal is equipped with 2 USB ports (Type A and Type B). The terminal has multimedia capabilities and it has a single audio output port. The IC755CSS15CDA terminal has an LED indicator that alert the operators about different things along with an onboard buzzer. The LED indicator illuminates in amber, green, and red for different events. The terminal uses the Microsoft Windows 7 operating system. The operating system supports web browsing and remote network connectivity. The IC755CSS15CDA terminal meets different industrial standards and compliance ratings. It has been certified for ATEX Zone 2 environments. The terminal temperature is maintained by using the convection cooling method and the temperature of the device should be set between 0 and 55 degrees Celsius. The IC755CSS15CDA terminal consumes a maximum of 30 Watts of power. The terminal supports sequential function and function block diagrams for programming.