# GE Service Manual

IC755CSS06RDA

## 1. Description

The IC755CSS06RDA is a QuickPanel+ Operator terminal. It is part of the Visualization product catalog that is manufactured by Emerson Automation, formerly by GE Intelligent Platforms (GE IP). It functions as a Human Machine Interface (HMI), featuring an embedded display measuring 6-inch TFT LCD screen with resolution of 320 x 240 pixels. It comes with a resistive touchscreen interface and an Intel Freescale i.MX535 1 GHz ARM Cortex A8 processor. The integrated memory available to this HMI includ

## 2. Specifications

| Specification | Value |
|---|---|
| Manufacturer | **GE Fanuc Emerson** |
| Product | **Type Operator Terminals** |
| Product | **Line Quickpanel** |
| Part | **Number IC755CSS06RDA** |
| Weight | **1.38 lbs (0.62 kg)** |
| Display | **Size and Type 7-inch standard TFT LCD** |
| Resolution | **800 x 480 pixels SVGA** |
| Colors | **65,536** |
| Processor | **Intel Freescale i.MX535 1 GHz ARM Cortex A8 processor** |
| Brightness | **310 cd/m2** |
| Clock | **Speed 1GHz** |
| Touchscreen | **Projective capacitive, two-point** |
| Display | **size 6 inches** |
| Display | **type Colored TFT Display** |
| RAM | **DDR2 SDRAM 512 MB** |
| ROM | **SLC NAND 256 MB** |
| Input | **Type Touch** |
| SRAM | **512 kilobytes (with battery backup)** |
| Terminal | **memory 512 GB DDR2 SDRAM; 256 MB SLC NAND Flash; 512 KB SRAM** |
| Ethernet | **Ports 1 x 10/100BaseT (RJ-45)** |
| Communication | **ports One (1) Ethernet; One (1) RS232** |
| Serial | **Ports 1 x RS-232 UART port (5-pin connector)** |
| Two | **(2) Ethernet; One (1) RS232 UART One (1) RS323 / RS485 Removable storage slot:** |
| USB | **Ports USB Host: Two (2) USB 2.0 (Type-A) USB Device: USB 2.0 (Mini Type-B)** |
| 1x | **SD/SDHC card slot Operating System** |
| Storage | **1 x SD/SDHC card slot** |
| Windows | **Compact Embedded** |

## 3. Product Information

The IC755CSS06RDA is a QuickPanel+ Operator terminal. It is part of the Visualization product catalog that is manufactured by Emerson Automation, formerly by GE Intelligent Platforms (GE IP). It functions as a Human Machine Interface (HMI), featuring an embedded display measuring 6-inch TFT LCD screen with resolution of 320 x 240 pixels. It comes with a resistive touchscreen interface and an Intel Freescale i.MX535 1 GHz ARM Cortex A8 processor. The integrated memory available to this HMI includes 512 MB DDR2 SDRAM; 256 MB SLC NAND Flash and 512 KB SRAM. For communication, this device has One (1) Ethernet, and One (1) RS232 communication ports. This terminal operates at an input supply voltage of 24 VDC.

Technical specifications for IC755CSS06RDA

Manufacturer GE Fanuc Emerson

Product Type Operator Terminals

Product Line Quickpanel

Part Number IC755CSS06RDA

Weight 1.38 lbs (0.62 kg)

Display Size and Type 7-inch standard TFT LCD

Resolution 800 x 480 pixels SVGA

Colors 65,536

Processor Intel Freescale i.MX535 1 GHz ARM Cortex A8 processor

Brightness 310 cd/m2

Clock Speed 1GHz

Touchscreen Projective capacitive, two-point

Display size 6 inches

Display type Colored TFT Display

RAM DDR2 SDRAM 512 MB

ROM SLC NAND 256 MB

Input Type Touch

SRAM 512 kilobytes (with battery backup)

Terminal memory 512 GB DDR2 SDRAM; 256 MB SLC NAND Flash; 512 KB SRAM

Ethernet Ports 1 x 10/100BaseT (RJ-45)

Communication ports One (1) Ethernet; One (1) RS232

Serial Ports 1 x RS-232 UART port (5-pin connector)

Two (2) Ethernet; One (1) RS232 UART One (1) RS323 / RS485 Removable storage slot:

USB Ports USB Host: Two (2) USB 2.0 (Type-A) USB Device: USB 2.0 (Mini Type-B)

1x SD/SDHC card slot Operating System

Storage 1 x SD/SDHC card slot

Windows Compact Embedded 7 Mounting

Panel Mount; VESA 75 Supply Voltage

24 VDC

Description

The IC755CSS06RDA is a QuickPanel+ operator terminal that is formerly manufactured by GE Intelligent platforms (GE IP), now under Emerson Automation. This operator terminal is mainly used for implementing real-time machine or process visualization as this Human Machine Interface (HMI) can be downloaded with a custom designed graphics that represents the monitoring and control points of the system. This provides a highly-customizable interface that suits the requirement of the application. The IC755CSS06RDA is a has a 6-inch Liquid Crystal Display (LCD) with resolution of 320 x 240 pixels. Along this colored screen are an array of analog-resistive touch cells that allows direct input of operator commands such as navigation, modifying of variables, control commands and other configurable actions. To send and receive data to and from the partner Programmable Logic Controller (PLC), this HMI has built-in One (1) RJ45 port for Ethernet I/P connectivity that supports 10/100 mbps transmission speed at maximum cable distance of 100 meters per segment. It also has One (1) 5-pin RS232 port that can be used for a maximum cable distance of 15 meters. Aside from communication interfaces, the IC755CSS06RDA has a total of Three (3) USB ports that is comprised of two (2) USB 2.0 Type A and one (1) USB 2.0 mini type-B interface. It is also provided with a removable storage card that is compatible for SD / SDHC card slot. This HMI has a Windows Compact Embedded 7 operating system that provides a user-friendly configuration environment. This operating system also enables some standard windows tools and networking capabilities such as command prompt, File Transfer Protocol (FTP) and SNTP server.

The IC755CSS06RDA terminal is designed by GE Fanuc and it is part of the Quickpanel+ series. This kind of terminal is made to be used within industrial environments and it is an important tool for informing the operators about an application process and for providing the operators with all the necessary information about the operating status of the whole system. The unit is built for power sources with an input voltage of 24 Volts DC and it consumes 15 Watts of power maximum. The IC755CSS06RDA terminal has a 6-inch TFT LCD screen equipped with an LED backlight for high visibility. The resolution of this rugged and reliable display is 800 x 480 pixels. The terminal has a Freescale i.MX535 ARM Cortex A8 processor that runs on 1 gigahertz and a DDR2 RAM with a capacity of 512 megabytes. The additional memory includes 256 megabytes of SLC NAND ROM and 512 kilobytes of SRAM. The IC755CSS06RDA operator interface terminal is equipped with multiple communication ports, including a 10/100BaseT Ethernet port (RJ-45), an RS-232 UART serial port, and 3 USB 2.0 ports. In addition to that, the IC755CSS06RDA operator interface terminal has a card slot that accepts SD or SDHC memory cards for storage. The dimensions of the operator interface are 192 x 137 x 36 millimeters (7.5 x 5.3 x 1.4 inches). The unit is designed for panel mounting but it can be also mounted with VESA mounting. The weight of the unit is around 0.8 kilograms or 1.7 pounds. The unit can be installed in environments with humidity levels of up to 85% and it allows for an operating temperature range of 0 to 55 degrees Celsius (32 to 131 degrees Fahrenheit).