GE GE □□□ Series Service Manual

IS215UCCCM04A

1. Description

SPECIFICATIONS

2. Specifications

Specification	Value
Part	**Number IS215UCCCM04A**
Product	**Series Mark VIe Turbine Control System**
Original	**Manufacturer General Electric**
Functional	**Acronym UCCC**
Functional	**Description Compact PCI Controller Board**
Product	**Type VME Controller**
PCB	**Coating Style M04 Coating**
Functional	**Revision 1 A**

3. Product Information

SPECIFICATIONS

Part No.: IS215UCCCM04A

Manufacturer: General Electric

Product Type: VME Controller

Series: Mark VIe

IS215UCCCM04A is a VME Controller Card and is part of the GE Speedtronic Mark VIe gas turbine control system. IS215UCCCM04A is a module assembly that includes IS215UCCC H4, Combined with 128 MB of flash memory, 256MB of DRAM, and the IS200 EPMC daughter board. Sometimes known as CPCI 3U compact PCI. The faceplate includes six ethernet-type ports. Each port is labeled with its intended use. There are a couple of LEDs on the faceplate as well. A little reset button is located at the bottom of the faceplate.

The male terminal on the back of the circuit board and the two huge clasps on either end of the faceplate secure the card. The board employs a variety of capacitor types to store energy for later usage by the circuit board.

The circuit board will route the energy to its resistors if the card needs to rid itself of unused energy. A one hundred and twenty-eight megabit (128 MB) SD card is included with the board. This card comes with its own case into which it may be slid.

There are numerous microchips in the controller. Data and conditions that control the circuit board as a whole are stored on microchips. The integrated circuits can be thought of as the circuit board's brains.

A huge black component with slits is used on the board. This part aids in the cooling of the board. Multiple interference suppressors are included in the board. External electrical sources, such as radios, cell phones, and other similar devices, are suppressed by these suppressors.

The Power Requirements for this card mention below

+5 V DC (+5%, -3%, 4.5A (typical) 6.75 max)

+3.3 V DC (+5%, -3%, 1.5A (typical) 2.0 max)

+12 V DC (+5%, -3%, 50mA max)

IS215UCCCM04A Technical Specifications

Part Number IS215UCCCM04A

Product Series Mark VIe Turbine Control System

Original Manufacturer General Electric

Functional Acronym UCCC

Functional Description Compact PCI Controller Board

Product Type VME Controller

PCB Coating Style M04 Coating

Functional Revision 1 A

About the IS215UCCCM04A

This IS215UCCCM04A device, better known by its General Electric functional product description as the IS215UCCCM04A Compact PCI Controller Board, was originally designed and manufactured specifically for General Electric's Mark VI Turbine Control System Series. The Mark VI Series that this IS215UCCCM04A Compact PCI Controller Board product offering belongs to, as you can probably tell based off of its full extended product series title alone, exists with a set of possible functional applications in the control and management systems of General Electric-compatible gas, steam, and wind turbine automated drive assemblies. This must be characterized as quite the significant functionality-focused improvement upon the previously-released Mark V Turbine Control System Series of essentially the same full extended series title, as the Mark VI Series added the alternative energy-based wind turbine possible application onto the more rudimentary gas and steam-based turbine applications seen with the previous Mark V Series.

Hardware Tips and Specifications

The IS215UCCM04A is called a CPCI 3U compact PCI and is a product of General Electric’s turbine series. This turbine series is called Mark VI Speedtronic. The IS215UCCM04A ‘s faceplate has six ethernet type ports. Each port is categorized with its purpose. The faceplate also has a few lights. At the bottom of the faceplate, there is a small reset button. The IS215UCCM04A locks into place using the masculine terminal in the back of the circuit board and the two large clasps on either end of the faceplate. The IS215UCCM04A uses numerous capacitor styles to keep energy that the circuit board can utilize later. If the IS215UCCM04A need to clear itself of unused energy the circuit board will direct the energy to its resistors. The IS215UCCM04A has a one hundred and twenty-eight megabit (128 MB) SD card. This card has its own case that it slides into. The IS215UCCM04A has multiple microchips. The microchips are used to hold data and conditions that control the circuit board as a whole. You can think of the integrated circuits as the brains of the circuit board. The IS215UCCM04A has a large black component with slits in it. This component is used to help cool down the IS215UCCM04A. The IS215UCCM04A has multiple interference suppressors. These suppressors are used to stop interference from outside electrical sources, such as radios, cell phones, and other things of that nature. The interference suppressors are meant to keep the IS215UCCM04A running smoothly.

The IS215UCCCM04A is a 1,600 MHz board that reached last-time buy status in 2011. It was replaced by the IS420UCSBH3A board at significantly more expense. Our surplus or reconditioned used original stock is a more cost-effective option. Reach out via phone or email to receive a quote. Unfortunately enough for the sake of this IS215UCCCM04A personalized product page here, this IS215UCCCM04A device and its greater Mark VI Turbine Control System Series are not surrounded by very many specific originally-printed instructional manual materials on the internet. Given this concerted lack, this IS215UCCCM04A device's IS215UCCCM04A functional product number can be adopted as a fine original source of IS215UCCCM04A Board hardware component and component specification information, as it was specifically developed by General Electric to illustrate a number of important IS215UCCCM04A device hardware qualities through its GE-sanctioned series of consecutive functional naming elements. For example, this specific IS215UCCCM04A functional product number starts off with an inclusion of the dual-functional IS215 series tag delegating both this IS215UCCCM04A printed circuit board product offering's special modular Mark VI Series assembly as well as its domestic OG GE manufacture location. Some of the other important IS215UCCCM04A PCB details indicated through this medium include the:

UCCC functional product acronym

Group 4 Mark VI Series product grouping

Specialized PCB protective coat

Singular A-rated revision