GE Service Manual

DS200UPLAG1BEA

1. Description

DS200UPLAG1BEA Technical Specifications

2. Specifications

Specification	Value
Manufacturer	General Electric
Series	Mark V
Part	Number DS200UPLAG1BEA
Functional	Acronym UPLA
Functional	Description LAN Power Supply Card
PCB	Coating Normal Coating
Functional	Revision 1 B
About	the DS200UPLAG1BEA
This	DS200UPLAG1BEA printed circuit board was originally manufactured for placement in General Electric's Mark V Turbine Control System Series, as revealed above. This DS200UPLAG1B printed circuit board or PCB for short's greater Mark V Series has specific applications in the management and control systems of compatible steam, wind and gas turbine automated drive assemblies, and is considered to exist as a now-obsolete General Electric legacy product series given its manufacturing discontinuation in the years following its original release. This DS200UPLAG1B printed circuit board or PCB for short's Mark V Series, while a legacy series, is also one of the final General Electric Mark product series to make use of their patented Speedtronic control system technology first seen

3. Product Information

DS200UPLAG1BEA Technical Specifications

Manufacturer General Electric

Series Mark V

Part Number DS200UPLAG1BEA

Functional Acronym UPLA

Functional Description LAN Power Supply Card

PCB Coating Normal Coating

Functional Revision 1 B

About the DS200UPLAG1BEA

This DS200UPLAG1BEA printed circuit board was originally manufactured for placement in General Electric's Mark V Turbine Control System Series, as revealed above. This DS200UPLAG1B printed circuit board or PCB for short's greater Mark V Series has specific applications in the management and control systems of compatible steam, wind and gas turbine automated drive assemblies, and is considered to exist as a now-obsolete General Electric legacy product series given its manufacturing discontinuation in the years following its original release. This DS200UPLAG1B printed circuit board or PCB for short's Mark V Series, while a legacy series, is also one of the final General Electric Mark product series to make use of their patented Speedtronic control system technology first seen with the rollout of the Mark I in the late 1960s. This DS200UPLAG1B printed circuit board is truly better-definable as an LAN Power Supply Card, although the original product of this specific functional role to appear in the Mark V Series is the DS200UPLAG1 parent printed circuit board missing this DS200UPLAG1B product's revision table.

Hardware Tips and Specifications

As with any printed circuit board available to our new and reconditioned inventory of Mark V Series products, the functionality of this DS200UPLAG1B PCB is achieved through its own specific series of functionality-introducing hardware components and component specifications. The GE LAN Power Supply Circuit Board DS200UPLAG1B contains two 26-pin connectors, 1 fuse, and 1 toggle switch. The board also has 1 reset button and 1 8-pin connector. The reset button on the GE LAN Power Supply Circuit Board DS200UPLAG1B can be used to restart the board when the board begins to behave erratically or have intermittent problems during normal operation. It enables you to restart the board without restarting the drive and so requires less time and expense. Because of the high-voltage conditions in the drive, only qualified persons should use the restart button. Open the board cabinet on the drive and locate the restart button on the board. Without touching any other components, press the button for a few seconds. Then, release the button. The board will restart and will resume normal operation. The board is 8.5 inches by 11 inches and is a standard size of boards that are installed in the drive. The DS200UPLAG1B boards are installed in the rack in the Mark V Series board cabinet and are secured in place with screws in each of the four corners. Matching holes are in the rack and enable you to align the holes and secure the board with screws. Before you install the DS200UPLAG1B LAN Power Supply board consider that the board has 17 jumpers and 16 switches that are used to configure the board. The switches are arranged in two blocks of 8 switches and have an ON and OFF position. The jumpers can be re-positioned over another set of pins.

The above paragraph features a disproportionate amount of DS200UPLAG1B printed circuit board installation-geared hardware procedures and requirements. While these instructions are certainly crucial to follow during any attempted DS200UPLAG1B board installation, their presence on this DS200UPLAG1B personalized product page is really more telling of a lack of other DS200UPLAG1B board-specific hardware details available to its originally-printed instructional manual materials. With this in mind, the DS200UPLAG1B functional product number is truly important to the DS200UPLAG1B board as it reveals several of its core hardware details, beginning with the DS200 series tag at the beginning of the DS200UPLAG1B functional product number with dual naming responsibilities. The DS200 series tag that starts off the DS200UPLAG1B functional product number is telling of this DS200UPLAG1B PCB's normal Mark V Series assembly and domestic manufacture location. Some of the other hardware details in the DS200UPLAG1B functional product number include this DS200UPLAG1B LAN Power Supply Card's:

UPLA functional product abbreviation

Normal style of PCB surface coating

Group one Mark V Series grouping

B-rated functional product revision

Functional Description

The DS200UPLAG1B is a LAN Power Supply Board developed by GE as part of the Mark V control system. It is designed for efficiency and durability, ensuring seamless data transmission by regulating voltage and protecting against power fluctuations or surges. The board features multiple power outputs, overload protection, and PoE (Power over Ethernet) compatibility, making it suitable for both small-scale and enterprise-level networking applications.

Features

Voltage Regulation: Ensures stable power delivery to connected components, reducing the risk of performance issues caused by voltage fluctuations.

Surge Protection: Shields the board from electrical damage caused by transient voltages and power spikes.

PoE Compatibility: Supports Power over Ethernet for efficient distribution of power within networking environments.

Overload Protection: Guards the board and connected components against excessive current draw to prevent system failures.

Configurable Jumpers and Switches: Offers flexibility for operational control and system customization.

Components

Connectors: Includes two 26-pin connectors for communication and power distribution between the board and external modules, plus one 8-pin connector for peripheral connections.

Protective Elements: Features one fuse that acts as a safety mechanism against electrical surges and overcurrent conditions.

Control and Reset Mechanisms: Includes one toggle switch for manual power control and one reset button to restart the board without needing a full system reboot if erratic behavior occurs.

Configurable Settings: Equipped with 17 jumpers for fine-tuned system adjustments and 16 switches (arranged in two blocks of 8) that provide ON/OFF configuration options.

Installation Guidelines

Power Off the System: Always disconnect power before handling the board to prevent electrical damage.

Align the Board: Use the matching holes in the rack to ensure proper positioning.

Secure with Screws: Fasten the board at all four corners to ensure a stable installation.

Configure Jumpers and Switches: Verify that all 17 jumpers and 16 switches are set correctly according to system requirements before powering up.

Connect Cables: Use the provided 26-pin and 8-pin connectors to integrate the board into the Mark V system.

Power On & Test: Power on the system and monitor the board to ensure it is functioning correctly.