GE GE □□□ Series Service Manual

IS200CSLAH1A

1. Description

SPECIFICATIONS

2. Specifications

Specification	Value
Manufacturer	**GE Industrial Systems**
Series	**EX2100E**
Part	**Number IS200CSLAH1A**
Functional	**Acronym CSLA**
Functional	**Description Compact PCI Serial Link Expansion Board**
PCB	**Coating Conformal Coating**
Functional	**Revision 1 A**
About	**the IS200CSLAH1A**
The	**IS200CSLAH1A can be defined as a Compact High-speed Serial Link Expansion Board, meant for interfacing with the main EX2100e control processor board through the use of High-Speed Serial Link communication. This IS200CSLAH1A board is a modified version of the IS200CSLAH1 parent board; showcasing a singular functional revision rated at an "A" grade, and is available for both repair and replacement here at AX Control, with a standard one to two week lead repair time. This product has a functional industry acronym of "CSLA."**

3. Product Information

SPECIFICATIONS

Part No.: IS200CSLAH1A

Manufacturer: General Electric

Country of Manufacture: United States of America (USA)

PCB Coating: Conformal

Technology: Surface-mount

Temperature Operating: -30 to 65oC

Product Type: Compact PCI Serial Link Expansion Board

Availability: In Stock

Series: EX2100e

Functional Description

IS200CSLAH1A is a compact PCI serial link expansion board developed by GE. It is a part of EX2100e control system, functioning as a Compact High-speed Serial Link Expansion Board. Its primary purpose is to establish seamless communication with the main EX2100e control processor board, utilizing the High-Speed Serial Link communication protocol.

Visual Inspection - LED Indicators

Upon visual inspection, the component reveals a front faceplate adorned with a set of LED indicators, each conveying specific operational information:

RUN LED: Operational Status Indicator: Serves as a pivotal operational status indicator. When operational conditions align with the normative Serial Link Expansion parameters, this LED illuminates in a reassuring green hue. This luminous green glow signals to operators and maintenance personnel that the system is functioning within expected parameters, ensuring a seamless and properly established Serial Link Expansion. The "RUN" LED, therefore, plays a key role in providing a quick and clear visual confirmation of the normal operational status, promoting confidence in its performance.

STATUS LED: Fault Status Diagnostic Indicator: Specifically engineered to provide a dynamic visual cue in response to fault conditions. When a fault status is detected , this LED adopts a blinking yellow pattern. The intermittent yellow flashes serve as a diagnostic signal, drawing immediate attention to potential issues that require further investigation. By alerting operators to fault conditions, the STATUS LED acts as a proactive diagnostic tool, facilitating timely intervention and maintenance to ensure the continuous reliability and functionality of the system.

FAIL LED: Critical Fault Alert Indicator: It emits a distinctive red glow when confronted with destructive functional faults or reset faults. This intense red illumination serves as an unmistakable and urgent alert, signaling the occurrence of faults that demand immediate attention. The fault detection system, provides operators with a rapid and unmistakable indication of critical issues. This prompt notification enables swift corrective actions, minimizing downtime and ensuring the overall integrity of the control system.

HFBR-5961xxZ Transceivers

The most prominent features on the faceplate are ten transceivers, identifiable upon closer inspection as HFBR-5961xxZ transceivers manufactured by Avago. These transceivers play a pivotal role in facilitating high-speed communication, both for receiving and transmitting on-board data.

The ten transceivers located along the bottom of the module serve a dual purpose, handling both the reception and transmission of on-board communications. This breakdown provides valuable insights into the functionality and capabilities of the board.

IS200CSLAH1A Technical Specifications

Manufacturer GE Industrial Systems

Series EX2100E

Part Number IS200CSLAH1A

Functional Acronym CSLA

Functional Description Compact PCI Serial Link Expansion Board

PCB Coating Conformal Coating

Functional Revision 1 A

About the IS200CSLAH1A

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Hardware Tips and Specifications

The IS200CSLAH1A is a Compact High-speed Serial Link Expansion Board intended for use within the greater EX2100e Excitation Control Series. This model PCB has a relatively limited expanse of information available online, due to its status as a General Electric Legacy Series vintage or refurbished product. With that being true, a slew of information is available through both the careful knowledge visual inspection and part number breakdown of this IS200CSLAH1A unit.

In visual inspection, the IS200CSLAH1A seems to feature a series of distinct LED indicators. These indicators are affixed to the front faceplate of the CSLA board, and include:

A "RUN" LED that lights green when normative Serial Link Expansion is detected

A "STATUS" LED that should blink yellow when a fault status is detected

A "FAIL" LED that glows red when faced with a destructive functional fault or reset fault

The most noticeable component jutting out of the faceplate of the IS200CSLAH1A product are its series of ten transceivers. These transceivers can be defined as HFBR-5961xxZ transceivers through close visual inspection, and were manufactured by Avago.

Beyond the set of IS200CSLAH1A hardware specifications made obvious through a simple visual inspection exists more information attainable through an even-simpler IS200CSLAH1A product number breakdown. This compact high-speed serial link expansion board was manufactured in Salem, Virginia by General Electric, as indicated through the part number's initial "IS200" inclusion. The CSLA functional acronym unique to this product is inserted following the manufacturer location information, and is superceded by the "H1" portion of the part number. This "H1" designation describes the confromal coating style of the IS200CSLAH1A PCB, which is much more exhaustive in its overall coverage when compared to the alternative normal PCB coating style. The "H1" product number portion also suggest that this IS200CSLAH1A PCB is a member of the EX2100E series group one. A final observable

trait for the IS200CSLAH1A from its product number is its revision type, defined by the final "A" digit as a functional revision rated at an A grade.