# GE DS3800NSFE1E1B

## Technical Reference

GE DS3800NSFE1E1B is a signal interface board assembly identified for service in a matched legacy GE control assembly; the complete suffix must be retained during replacement.

### PRODUCT ROLE AND TECHNICAL FEATURES

**Feature 1**

Uses the DS3800 board-family identification.

**Feature 2**

Provides signal conditioning and interface functions in the installed control assembly.

**Feature 3**

Retains the complete suffix as part of the replacement identity.

**Feature 4**

Requires the original connector, slot and wiring relationship to be preserved.

### TECHNICAL DATA SNAPSHOT

| | |
|---|---|
| **Product form** | Printed circuit board assembly |
| **Platform family** | DS3800 |
| **Functional area** | Signal conditioning and interface functions |
| **Installation position** | Matched existing board position |

### SYSTEM RELATIONSHIP

**Field device** → **Product interface** → **System channel** → **Verified response**

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# Technical profile

Technical values for the complete product string are arranged below for selection and engineering review.

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|---|---|
| **Product form** | Printed circuit board assembly |
| **Platform family** | DS3800 |
| **Functional area** | Signal conditioning and interface functions |
| **Installation position** | Matched existing board position |
| **Connection basis** | Existing harnesses, connectors and backplane interfaces |
| **Identity control** | Complete catalog number and suffix required |
| **Replacement method** | Like-for-like controlled substitution |
| **Commissioning basis** | System diagnostics and affected-circuit functional checks |

## SELECTION ANCHORS

- Uses the DS3800 board-family identification.
- Provides signal conditioning and interface functions in the installed control assembly.
- Retains the complete suffix as part of the replacement identity.
- Requires the original connector, slot and wiring relationship to be preserved.

| | |
|---|---|
| **IMPORTANT NOTICE** | Use the values as one matched configuration. Do not substitute a nearby ordering code without a separate check. |

## MANUFACTURER DOCUMENT REFERENCE

| | |
|---|---|
| **Manufacturer document** | Exact product marking and verified GE board-family/document references available for this legacy assembly. |
| **Application scope** | The values below apply to the identified product and its documented system relationship. |
| **Selection rule** | Use the complete ordering string and confirm the installed interfaces before selection. |

## ADDITIONAL ENGINEERING CHECKS

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|---|---|
| **Which checks should follow installation of GE DS3800NSFE1E1B?** | Run the affected controller or drive diagnostics, verify connected circuits and confirm the expected system response. |
| **When should GE DS3800NSFE1E1B be returned to service?** | Release the equipment only after connector security, configuration records and all affected functional checks are complete. |

# System role and architecture

Field device → Product interface → System channel → Verified response

## APPLICATION POINTS

**Controlled board replacement**

Restores the documented board position after the installed identity and interfaces are matched.

**Legacy control maintenance**

Supports service work on equipment using the DS3800 board family.

**Interface-path recovery**

Returns the affected signal conditioning and interface functions after connector and wiring checks.

**Diagnostic troubleshooting**

Provides a defined replacement point when system tests isolate the fault to this board assembly.

## INTEGRATION RECORD

| | |
|---|---|
| **Identity** | Record the complete marking and installed position. |
| **Mechanical interface** | Confirm mounting, support, clearance and connector engagement. |
| **Electrical interface** | Confirm signal path, shield, common and receiving-channel assignment. |
| **Configuration** | Retain the controlled channel settings and acceptance criteria. |
| **Functional result** | Record the expected static value, dynamic response and system status. |

GE DS3800NSFE1E1B should be matched to the removed board by full marking, connector layout, installed location and system documentation before any wiring is transferred.

## ENGINEERING REVIEW QUESTIONS

| | |
|---|---|
| **What equipment identity must be matched before installing GE DS3800NSFE1E1B?** | Match the complete DS3800NSFE1E1B marking, board position, connector pattern and installed-system documentation. |
| **Why is the suffix important on GE DS3800NSFE1E1B?** | The suffix is part of the complete board identity and should be preserved during like-for-like replacement. |
| **Which connections should be recorded before GE DS3800NSFE1E1B is removed?** | Record every plug, keyed connector, jumper, cable label, shield and terminal relationship associated with the installed board. |
| **How should GE DS3800NSFE1E1B be handled during service?** | Use approved ESD handling and support the board by its edges without loading components or connector pins. |

# Engineering checks and acceptance

## PRODUCT PRECAUTIONS

| | |
|---|---|
| 01 | Confirm the complete DS3800NSFE1E1B marking before removing the installed board. |
| 02 | De-energize the equipment and follow the approved stored-energy procedure. |
| 03 | Photograph and label every connector, jumper and cable before disconnection. |
| 04 | Use ESD controls when handling the printed circuit board assembly. |
| 05 | Inspect connector keys, edge contacts and card guides before insertion. |
| 06 | Do not transfer jumpers or configurable devices until their original positions are recorded. |
| 07 | Restore every harness and shield to the documented termination point. |
| 08 | Run the affected system diagnostics and functional checks before release. |

## RELEASE CHECKS

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|---|---|
| **Exact identity** | Product marking and intended system position agree. |
| **Interface condition** | Mounting, connectors, terminals and cable routing are secure. |
| **Signal response** | The expected static and dynamic behavior has been observed. |
| **Protection state** | Channel status, alarms and controlled bypass state are restored. |

| | |
|---|---|
| **IMPORTANT NOTICE** | Match the complete DS3800NSFE1E1B identity and installed interfaces before replacement. |

## APPLICATION BOUNDARIES

| | |
|---|---|
| **Controlled board replacement** | Restores the documented board position after the installed identity and interfaces are matched. |
| **Legacy control maintenance** | Supports service work on equipment using the DS3800 board family. |
| **Interface-path recovery** | Returns the affected signal conditioning and interface functions after connector and wiring checks. |
| **Diagnostic troubleshooting** | Provides a defined replacement point when system tests isolate the fault to this board assembly. |

# Technical questions and related models

## MODEL-SPECIFIC QUESTIONS

| | |
|---|---|
| **What equipment identity must be matched before installing GE DS3800NSFE1E1B?** | Match the complete DS3800NSFE1E1B marking, board position, connector pattern and installed-system documentation. |
| **Why is the suffix important on GE DS3800NSFE1E1B?** | The suffix is part of the complete board identity and should be preserved during like-for-like replacement. |
| **Which connections should be recorded before GE DS3800NSFE1E1B is removed?** | Record every plug, keyed connector, jumper, cable label, shield and terminal relationship associated with the installed board. |
| **How should GE DS3800NSFE1E1B be handled during service?** | Use approved ESD handling and support the board by its edges without loading components or connector pins. |
| **What should be inspected before seating GE DS3800NSFE1E1B?** | Inspect card guides, connector keys, mating contacts, harness condition and the intended board position. |
| **Can GE DS3800NSFE1E1B be substituted using only a shortened base number?** | No. Use the complete catalog string and confirm the installed interfaces before substitution. |

## RELATED MODELS ON APTERPOWER

| | |
|---|---|
| GE DS200PCCAG10ACB | Related product reference. Review the complete ordering string before selection. |
| GE 531X304IBDANG1 F31X304IBDAMG1 | Related product reference. Compare the required interface and system position. |
| GE DS200ADPBG1ABB | Related product reference. Confirm the execution independently for the intended task. |

## DOCUMENT AND SELECTION RECORD

| | |
|---|---|
| **Manufacturer document** | Exact product marking and verified GE board-family/document references available for this legacy assembly. |
| **Application scope** | The values below apply to the identified product and its documented system relationship. |
| **Selection rule** | Use the complete ordering string and confirm the installed interfaces before selection. |

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