General Electric DS200TCEAG1BTF

Complete product information

General Electric DS200TCEAG1BTF is a emergency overspeed board for the GE Mark V protection core. It processes emergency overspeed, flame-detection and automatic-synchronizing signals within the Mark V protection arrangement.

Complete reference	DS200TCEAG1BTF
Product type	Emergency Overspeed Board
Platform	GE Mark V protection core
Technical basis	GE Mark V control-system hardware documentation and exact-board identification records

Product page
https://www.apterpower.com/General-Electric/Gas-Turbine-Control/ds200tceag1btf

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01 Product identity and technical profile

Board acronym	TCEA
Primary processor	Intel 80196
Configuration jumpers	30
Protective fuses	3
Connector designations	J7, JK, JL, JW, JX1, JX2
Protection function	Emergency overspeed
Additional functions	Flame detection; automatic synchronizing
Installation context	Mark V protection core

Engineering purpose

General Electric DS200TCEAG1BTF must be selected as a complete installed reference. Its function depends on the documented platform connection, companion hardware and approved configuration rather than physical fit alone.

02 Product characteristics

Configuration identity	Preserves the documented board or controller execution.
Service diagnostics	Connectors, indicators and configuration references support controlled fault isolation.
Installed-system continuity	Restores the approved hardware role without redefining the control strategy.

03 Engineering overview

The complete DS200TCEAG1BTF marking establishes the offered identity. Record all labels, connector positions and installed associations before removal because adjacent GE Mark V protection core references may differ in wiring, option content or revision compatibility.

Use the verified technical rows below to screen the offer, then compare the installed drawing and manufacturer instructions. Board acronym: TCEA; Primary processor: Intel 80196; Configuration jumpers: 30. These values do not authorize transferring specifications from a neighboring model.

During replacement, preserve the approved configuration and connection map. Perform a controlled visual, electrical and functional check, record the as-left result, and release the equipment only after the responsible site authority accepts the restored emergency

overspeed board.

Application map

Installed control-hardware service	Use DS200TCEAG1BTF only in the compatible GE Mark V protection core arrangement identified by the approved system documentation.
Revision-controlled replacement	Preserve the installed identity, connector orientation and configuration while restoring the documented function.
Controlled troubleshooting	Use recorded as-found values and approved tests to distinguish connection, companion-hardware and product faults.
Lifecycle support	Keep the complete DS200TCEAG1BTF reference and acceptance evidence with the asset record for future service.

04 Installation and product precautions

Confirm the complete marking	Do not shorten DS200TCEAG1BTF or transfer data from an adjacent reference.
Record every connection	Photograph connector orientation and label each cable or terminal before removal.
Preserve the configuration	Retain the approved GE Mark V protection core database, jumpers, switches or channel assignment as applicable.
Apply controlled isolation	Follow the site energy-isolation and ESD procedure before disturbing hardware.
Verify companion hardware	Check the documented base, cable, terminal, power and partner-module relationship.
Prove the restored function	Complete visual, electrical and functional checks before return to automatic service.

05 Lifecycle and available-unit details

DS200TCEAG1BTF belongs to a legacy GE control-hardware family. Treat the complete group and revision as installation-controlled; current supply is replacement-market support rather than new-platform production.

Retain the exact installed emergency overspeed board, connection map and configuration record. Evaluate a substitute only against the approved GE Mark V protection core documentation.

Offered identity	Complete DS200TCEAG1BTF marking, revision or option code, connector condition and installed configuration
Included items	the identified emergency overspeed board only; cables, terminals, bases and companion hardware only when itemized
Supply confirmation	Quantity and dispatch timing are confirmed in the quotation.

06 Technical notes

Evidence boundary	Technical rows apply to DS200TCEAG1BTF or its explicitly identified manufacturer family context.
Compatibility	Physical fit does not establish electrical, firmware or system compatibility.
Commissioning	Use approved General Electric instructions and site procedures for final installation and release.

07 Product-specific FAQ

Which identity fields must match before installing DS200TCEAG1BTF?	Match the complete model, group, revision, connector layout and any programmed or option-specific devices with the installed record.
How should connector positions on DS200TCEAG1BTF be documented?	Photograph and label each connector before removal, then compare keyed positions and cable destinations against the approved drawing.
What configuration must be retained when replacing DS200TCEAG1BTF?	Retain switch or jumper positions, firmware or programmable-device identity and the system database or drive setup that governs the board.

How can a system fault be separated from a DS200TCEAG1BTF board fault?	Review diagnostics, power rails, connectors and companion hardware, then use an approved substitution or bench method without bypassing protection.
Why must the full revision of DS200TCEAG1BTF be reviewed?	Revision letters can reflect hardware or firmware compatibility boundaries; confirm interchangeability for the installed system before release.
What cleaning restrictions apply to DS200TCEAG1BTF?	Use an approved ESD-safe method, keep solvents away from labels and programmed devices, and do not disturb conformal coating or adjustments.
What controlled startup checks apply after fitting DS200TCEAG1BTF?	Verify supply rails, status indications, communication and the board-specific control function in the approved sequence before automatic operation.
What service evidence should be retained for DS200TCEAG1BTF?	Retain complete markings, revision, connector mapping, configuration records, diagnostic results and as-left functional acceptance.

08 Recommended brand and model references

General Electric DS200SLCCG1AFG	LAN Communication Card
General Electric DS200UPSAG1AFD	UC2000 Power Supply Board
General Electric DS200UPSAG1AGD	UC2000 Power Supply Board
General Electric DS6800CCID1D1D	Industrial Control Printed Circuit Board
General Electric DS200CPCAG1ABB	Contactor Pilot Board

Commissioning record

Installed asset	Machine, cabinet, channel or station reference
Companion identities	Base, terminal, cable, module or controller marking
Configuration baseline	Database revision, settings, jumpers or option record
Before-work evidence	Photographs, diagnostics and measured values
As-left result	Functional proof and accepted deviations
Release	Technician, reviewer and approval date

As-left verification worksheet

Exact delivered marking	DS200TCEAG1BTF plus any visible revision or option label
Installed asset reference	Cabinet, rack, slot, station, loop or machine designation
Connector relationship	Connector identity, keying, cable destination and strain relief
Companion hardware	Base, terminal, cable, supply, partner module or controller identity
Configuration state	Approved database revision, switches, jumpers or programmed-device identity
Static checks	Continuity, supply, resistance or insulation test as applicable
Functional checks	Status, channel value, communication or controlled operating response
Deviation record	Documented difference, disposition and responsible approval