



# Honeywell TC-FTEB01 51309512-125

Experion PKS Fault Tolerant Ethernet bridge module

## Product scope

- The bridge connects a supported C200 or FIM-only chassis to the Experion Fault Tolerant Ethernet network.
- The supplied hardware is marked revision A with firmware revision B and part number 51309512-125.
- Nameplate rail loads include 0.70 A at 3.3 V and 0.4 A at 5.1 V for exact assembly identification.

## Manufacturer source

Honeywell Experion Control Hardware Planning Guide, TC-FTEB01 section.

This English web copy combines exact-model specifications with detailed function, system role, operating principle, application scenarios and installation boundaries.

| Request a fast quote                                                                                                                                              | Product reference                |                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------------------------------------------------------------|
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Experion PKS Fault Tolerant Ethernet bridge module

## Verified technical specifications

Values below apply to the exact model or nameplate identified on this page; adjacent family variants are not merged.

|                                         |                                                                         |
|-----------------------------------------|-------------------------------------------------------------------------|
| Module designation                      | TC-FTEB01 FTE Bridge                                                    |
| Supplied ordering reference             | 51309512-125                                                            |
| Network function                        | Fault Tolerant Ethernet communication                                   |
| Controller support                      | C200 controller chassis                                                 |
| FIM support                             | FIM-only chassis                                                        |
| Maximum bridge quantity                 | One per C200 or FIM-only chassis                                        |
| ACE arrangement                         | ACE included when connected through the documented chassis architecture |
| Hardware revision on supplied nameplate | A                                                                       |
| Firmware revision on supplied nameplate | B                                                                       |
| 1.2 V rail current                      | 0.007 A                                                                 |
| 3.3 V rail current                      | 0.70 A                                                                  |
| 5.1 V rail current                      | 0.4 A                                                                   |
| 24 V rail current                       | 0.020 A                                                                 |
| Manufacturing marking                   | Made in USA                                                             |

## Product function and system role

### Exact configuration

Honeywell TC-FTEB01 51309512-125 is an FTE Bridge for supported Experion PKS C200 and FIM-only chassis arrangements. The supplied nameplate identifies hardware revision A and firmware revision B.

TC-FTEB01 provides the chassis-level path between compatible controller or Fieldbus Interface Module resources and Honeywell Fault Tolerant Ethernet. Redundant network paths carry control and supervisory traffic so the Experion architecture can continue communicating after a single network-path failure.

### Functional role

It mediates chassis communication onto redundant FTE segments so controllers, FIM resources and Experion servers share a resilient data path.

The current assembly identity combines model TC-FTEB01 with ordering number 51309512-125 and the recorded hardware/firmware revisions.

### Key operating characteristics

- The bridge connects a supported C200 or FIM-only chassis to the Experion Fault Tolerant Ethernet network.
- The supplied hardware is marked revision A with firmware revision B and part number 51309512-125.
- Nameplate rail loads include 0.70 A at 3.3 V and 0.4 A at 5.1 V for exact assembly identification.

## Operating principle and application guidance

### Working principle

The 51309512-125 assembly is limited to the documented C200 or FIM-only chassis use, with one bridge per supported chassis. Its nameplate current values across the 1.2 V, 3.3 V, 5.1 V and 24 V rails help identify the exact electrical loading of this hardware revision.

Confirm the node database, chassis slot, FTE A/B cabling and supported release before a replacement bridge is introduced.

### Application scenarios

- C200 control nodes can connect their chassis resources to redundant Experion supervisory communications.
- FIM-only chassis can expose fieldbus data through the planned FTE node architecture.
- Maintenance teams can restore a failed bridge while preserving the original FTE addresses and redundant path allocation.

### Integration and replacement boundary

Replacement planning must include chassis type, Experion release, firmware compatibility, FTE addressing and cable topology. An FTE Bridge should not be moved between nodes until the paired network paths, chassis configuration and database assignment are recorded and approved.

### Critical technical check

Only one TC-FTEB01 51309512-125 is permitted in the supported chassis arrangement; confirm firmware revision B and both FTE network paths before returning the node to redundant service.

### Manufacturer evidence used

- Honeywell Experion Control Hardware Planning Guide, TC-FTEB01 section.

Exact product identity checked: Honeywell TC-FTEB01 51309512-125



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