# Product dashboard

Siemens 6DS1618-8CA is a TELEPERM M testable binary input module used with the AS 235 H PBE driver for hardware-fault detection and redundant binary-signal processing.

| Exact model | Product type | System family | Functional role |
|---|---|---|---|
| 6DS1618-8CA | Testable Binary Input Module | TELEPERM M / AS 235 H | Binary Input Module |

| PARAMETER | DOCUMENTED VALUE |
|---|---|
| Exact article | 6DS1618-8CA |
| Product family | TELEPERM M / AS 235 H |
| Module type | Testable binary input module (PBE) |
| Driver context | PBE function block |
| Fault feature | Special hardware-fault detection procedures |
| Documented structures | 1-out-of-1, 1-out-of-2 and 2-out-of-2 |
| 1-out-of-2 interpretation | Binary values from two modules are ORed |
| 2-out-of-2 interpretation | Binary values from two modules are ANDed |

Release basis: verify the exact identity, retained host relationship, connected interfaces and controlled functional result.


## CONTACT APTER POWER

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6DS1618-8CA

# System overview

Siemens 6DS1618-8CA supplies the testable binary-input path for the AS 235 H PBE driver and supports 1-out-of-1, 1-out-of-2 and 2-out-of-2 configurations.

### Redundant binary acquisition

Interprets paired binary signals through the configured 1oo2 or 2oo2 logic.

### Hardware-fault isolation

Uses PBE diagnostics and the BGF module-fault signal to identify the faultless path.

### AS 235 H maintenance

Restores exact binary-value addresses, driver pairing and configuration logic.

### Critical input verification

Checks every affected binary state before enabling dependent process logic.

| SYSTEM POSITION | RECORD |
| --- | --- |
| **Installed identity** | 6DS1618-8CA |
| **Host relationship** | TELEPERM M / AS 235 H |
| **Controlled function** | testable binary input service with AS 235 H hardware-fault detection and redundant interpretation |


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# Technical data map

| PARAMETER | VERIFIED VALUE |
|---|---|
| **Exact article** | 6DS1618-8CA |
| **Product family** | TELEPERM M / AS 235 H |
| **Module type** | Testable binary input module (PBE) |
| **Driver context** | PBE function block |
| **Fault feature** | Special hardware-fault detection procedures |
| **Documented structures** | 1-out-of-1, 1-out-of-2 and 2-out-of-2 |
| **1-out-of-2 interpretation** | Binary values from two modules are ORed |
| **2-out-of-2 interpretation** | Binary values from two modules are ANDed |
| **Configuration responsibility** | User provides the OR and AND interconnection |
| **Documented example width** | 16 binary values from each of two PBE drivers |
| **Fault-routing signal** | Module fault signal BGF |

| CONTROL BAND | VERIFICATION RECORD |
|---|---|
| **Identity** | Exact model and complete label |
| **Mechanical** | Form, seating and retention |
| **Interfaces** | Power, wiring, communication and protection |
| **Configuration** | Settings, project and revision |
| **Release** | testable binary input service with AS 235 H hardware-fault detection and redundant interpretation |

Technical evidence record: Siemens TELEPERM M AS 235 H Description C79000-G8076-C484-04, section 5.1


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# Applications and precautions

1. Confirm the complete Siemens 6DS1618-8CA marking before work.
2. Place every dependent binary function in the approved maintenance state.
3. Record both PBE drivers, binary-value addresses and the selected structure.
4. Document the user-configured OR or AND interconnection before removal.
5. Preserve the BGF module-fault routing and its downstream selection logic.
6. Restore the exact 1oo1, 1oo2 or 2oo2 arrangement for this position.
7. Review PBE and hardware-fault indications after controlled energization.
8. Prove every affected binary state before returning the process to service.

Complete each check against the installed record; hold release when any identity, connection, configuration or diagnostic result differs.


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6DS1618-8CA

# Buyer and engineering FAQ

### What function does Siemens 6DS1618-8CA provide?

It is the AS 235 H testable binary input module used with the PBE driver block.

### Which structures can Siemens 6DS1618-8CA use?

It supports 1-out-of-1, 1-out-of-2 and 2-out-of-2 structures.

### How does Siemens 6DS1618-8CA interpret a 1-out-of-2 pair?

Binary values from the two modules are ORed by user-configured logic.

### How does Siemens 6DS1618-8CA interpret a 2-out-of-2 pair?

Binary values from the two modules are ANDed by user-configured logic.

## Related Apter Power pages

- Siemens 6DP1230-8CC
- Siemens 6ES5312-3AB31

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