

CI846

ABB Ability™ System 800xA® hardware selector



CI846 Ethernet Fieldbus Communication Interface Module

The CI846 Ethernet Fieldbus Communication Interface Module (FCI) is used to connect S100 I/O over Ethernet to an AC 800M controller via the CI871A Profinet module. For redundant configurations, two CI846 are required to be installed in the TU866 Ethernet Field Communications Interface MTU.

This product requires a Temporary Sales Approval.

Features and benefits

- Can be used as single or redundant
- Supports S100 I/O modules on Ethernet
- Support of maximum five S100 I/O subracks (each subrack support up to 20 S100 I/O modules and single extender module or 19 S100 I/O modules and redundant bus extenders)
- Acting as the S100 I/O communication protocol master
- Possible to use with single or redundant 24V power supplies
- Built-in power voting
- Built-in supervision of power supply A and power supply B
- Built-in cabinet temperature measurement
- Remote diagnosis (via Webserver -> Remote Service Interface)
- Livelist
- Time synchronization
- Sequence of Events (SOE)
- Support of Configure in Run (CiR)
- Mechanical locking slider which turns off power before removal
- Mechanical keying
- LED indicators

General info

| | |
|------------------------|--------------------------------|
| Article number | 2PAA125748R1 |
| Communication protocol | Ethernet |
| Type | Ethernet FCI Module (S100 I/O) |
| Master or slave | Slave |
| SOE | Yes |
| Line redundancy | Yes |
| Network redundancy | Yes |
| Module redundancy | Yes |
| Hot swap | Yes |
| High integrity | N/A |
| Intrinsic safety | N/A |

| Detailed data | |
|-------------------------|--|
| Supported field devices | Redundant S100 I/O cable connector |
| Diagnostics | Communication supervision Internal power supervision Supervision of incoming system power A and B Cabinet temperature supervision |
| Power dissipation | 3.5 W |
| Input voltage range | 19.2 ... 30 V |

| Environment and certification | |
|--------------------------------------|---|
| Temperature, Operating | -5 °C (23 °F) to +55 °C (131 °F) |
| Temperature, Storage | -5 °C (23 °F) to +55 °C (131 °F) |
| Pollution degree | Pollution Degree 2 acc. to IEC 60664-1 |
| Relative humidity | 5 to 95 %, non-condensation |
| Altitude | -1000 to 2000 m |
| Mechanical operating conditions | IEC 61131-2 |
| EMC | IEC/EN 61000-6-4, IEC/EN 61000-6-2 |
| Overvoltage categories | Category II acc. to IEC 60664-1 |
| Equipment class | Class III acc. to IEC/EN 61010-2-201 |
| Ingress protection | IP20 acc. to IEC 60529 |
| CE-marking | Yes |
| UKCA | Yes |
| Electrical Safety | IEC/EN 61010-1 UL 61010-1 CSA-C22.2 No. 61010-1-12 IEC/EN 61010-2-201 UL 61010-2-201 CSA C22.2 No. 61010-2-201 |
| Corrosive atmosphere | G3 |
| RoHS compliance | Yes |
| WEEE compliance | EU |

| Dimensions | |
|-------------------------|----------|
| Width | 30 mm |
| Depth | 122.3 mm |
| Height | 135 mm |
| Weight (including base) | 222 g |

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