

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

—
solutions.abb/800xA
solutions.abb/controlsystems

—
800xA and Symphony Plus is a registered trademark of ABB. All rights to other trademarks reside with their respective owners.

We reserve the right to make technical changes to the products or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB does not assume any responsibility for any errors or incomplete information in this document.

We reserve all rights to this document and the items and images it contains. The reproduction, disclosure to third parties or the use of the content of this document – including parts thereof – are prohibited without ABB's prior written permission.

Copyright© 2024 ABB All rights reserved