DATA SHEET

CI845
System 800xA hardware selector

Select I/O is an Ethernet networked, single channel granular I/O system for the ABB Ability™ System 800xA automation platform. Select I/O helps decouple project tasks, minimizes the impact of late changes and supports standardization of I/O cabinetry ensuring automation projects are delivered on-time and under budget. A Signal Conditioning Module (SCM) performs the necessary signal conditioning and powering of the connected field device for one I/O channel.

The CI845 Ethernet Fieldbus Communication Interface Module (FCI) is responsible for communications of S800 I/O or Select I/O to the AC 800M controllers. For redundant configurations, two CI845s are required to be installed in the TU860 or TU865 Ethernet Field Communications Interface MTUs.

Features and benefits

- Can be used as single or redundant
- Supports both Select I/O and S800 on Ethernet
  - Supports 12 single or 12 redundant S800 I/O modules
  - Supports up to 192 Select I/O channels
- Possible to use with single ar redundant 24V power supplies
- Built-in power voting
- Built-in supervision of power supply A and power supply B
- Built-in cabinet temperature measurement
- Built-in diagnostics
- Soft marshalling
- Optimized engineering
- HART v7, HART pass-through
- HART variables to the application (Select I/O)
- Sequense of Events
- Supports hot swap
- Can be used in hazardous area
- Mechanical locking slider which turns off power before removal
- Mechanical keying
- LED indicators

General info	
Article number	3BSE075853R1
Type	Ethernet FCI Module
Master or slave	Slave
HART	Yes
SOE	Yes
Redundancy	Yes
Hot swap	Yes
Intrinsic safety	N/A
Mechanics	Select I/O

Detailed data	
Power dissipation	5 W
Installation in Hazardous Locations	ATEX – II 3G Ex nA/eC IIC T4 Gc Class I, Zone 2, IIC T4 Class I, Div 2, Groups A, B, C, D T4
Input voltage range	19.2 ... 30 V

Environment and certification	
Temperature, Operating	-40°C (-40°F) to +70°C (158°F)
Temperature, Storage	-40°C (-40°F) to +85°C (185°F)
Pollution degree	Pollution Degree 2 acc. to IEC 60664-1
Relative humidity	5 to 95 % no condensation
Altitude	-1000 to 3000 m, (-100 ... 2000 m for Zone 2/Class I Div 2)
Mechanical operating conditions	IEC 61131-2
EMC	IEC/EN 61000-6-4, IEC/EN 61000-6-2
Overvoltage categories	Category II, IEC 60664-1
Protection class	IP20 according to EN60529
CE-marking	Yes
Electrical Safety	IEC/EN 61010-1, IEC 61010-2-201, UL 61010-2-201, CSA C22.2 No. 61010-2-201
Hazardous Area	EN 60079-0, EN60079-7, EN60079-15, UL 12.12.01 / CSA C22.2 No. 213-17
Marine certification	DNV-GL, ABS
Corrosive atmosphere	G3 (ISA-S71.04)
RoHS compliance	DIRECTIVE/2011/65/EU (EN 50581:2012)
WEEE compliance	DIRECTIVE/2012/19/EU

Dimensions	
Width	30 mm (1.18 in.)
Depth	121.7 mm (4.79 in.)
Height	135 mm (5.31 in.)
Weight (including base)	225 g (0.49 lbs)

—

solutions.abb/800xA
solutions.abb/controlsystems

—