

CI874

ABB Ability™ System 800xA® hardware selector



The CI874 is an AC 800M communication interface that connects to external Ethernet devices using the OPC UA protocol. The TP867 Baseplate has one RJ45 Ethernet connector that supports 100Mbps. The CI874 expansion unit contains the CEX-Bus logic, a communication unit, and a DC/DC converter that supplies the required voltage from +24 V supply through the CEX-Bus.

CI874 is represented as a hardware module within the Control Builder hardware tree. The CI874 module will only work with System 800xA 6.1.1 and subsequent versions.

Features and benefits

- CI874 supports connection with OPC UA servers
- CI874 can be configured as redundant
- User can perform the upgrade of CI874 software components, called as online upgrade
- CI874 has a Web Server Interface who offers access to CI874 specific information used during commissioning and maintenance
- CI874 supports hot swap without any configuration changes

General info

Article number	3BSE090784R1
Communication protocol	OPC UA Client
Master or slave	Master
Client or server	Client
Line redundancy	No
Module redundancy	Yes
Hot Swap	Yes
Used together with HI Controller	No

Detailed data

Max units on CEX bus	12
Connector	1 pcs RJ-45 female (8-pin)
24 V consumption typ.	typ 160 mA

Environment and certification	
Temperature, Operating	+5 to +55 °C (+41 to +131 °F)
Temperature, Storage	-40 to +70 °C (-40 to +158 °F)
Altitude	2000 m according to IEC/EN 61131-2
Pollution degree	Degree 2 according to IEC/EN 61131-2
Corrosion protection	G3 compliant to ISA 71.04
Relative humidity	5 to 95 %, non-condensing
Protection class	IP20 according to EN60529, IEC 529
Emission & Immunity	EN 61000-6-4, EN 61000-6-2
CE- marking	Yes
Electrical Safety	UL 61010-1, UL 61010-2-201
Hazardous location	UL 60079-15, cULus Class 1, Zone 2, AEx nA IIC T4, ExnA IIC T4Gc X (UL pending)
Marine certificates	ABS, BV, DNV-GL, LR
TUV Approval	No
RoHS compliance	DIRECTIVE/2011/65/EU (EN 50581:2012)
WEEE compliance	DIRECTIVE/2012/19/EU

Dimensions	
Width	59 mm (2.3 in.)
Height	185 mm (7.3 in.)
Depth	127.5 mm (5.0 in.)
Weight (including base)	700 g (1.5 lbs)

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