

DATA SHEET

CI868

System 800xA hardware selector



The CI868 can be used to connect an AC 800M controller to external Ethernet devices using IEC 61850 – Edition 1 standard. Since this is a standard for Substation Automation, this allows the combination of Process Automation and Electrical Control in the same controller.

The TP868 Baseplate has two RJ45 Ethernet connectors, where CH1 connector can use 10Mbps or 100Mbps (Mega bits/sec.). The baseplate has a code lock that prevents the installation of an incorrect type of unit onto the TP867 Baseplate.

The CI868 expansion unit contains the CEX-Bus logic, a communication unit and a DC/DC converter that supplies appropriate voltages from the +24 V supply via the CEX-Bus. The Ethernet cable must be connected to the main network through an Ethernet switch.

Features and benefits

- Allows communication via both protocols defined by IEC 61850 standard: MMS (client) and GOOSE
- A maximum of 80 IEDs (GOOSE) and 20 IEDs (MMS) is allowed per CI868. The combination of both protocols in the same module is allowed. (20IEDs /CI868)
- Up to 12 modules can be used in one AC 800M Controller

General info		
Protocol	IEC 61850	
Article number	3BSE048845R1	
Master or slave	Master / Slave	
Transmission speed	10/100 Mbit/s	
Line redundancy	No	
Module redundancy	No	
Hot Swap	Yes	
Used together with HI Controller	Yes	

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

Environmental and certification		
Temperature, Operating	55 °C	
Protection class	IP20 according to EN60529, IEC 529	
CE- marking	Yes	
Marine certificates	ABS, BV, DNV-GL, LR	
RoHS compliance	EN 50581:2012	
WEEE compliance	DIRECTIVE/2012/19/EU	

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



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