

# 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. (20 IEDs / 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

<b>Environmental and certification</b>	
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

<b>Dimensions</b>	
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)

---

[www.abb.com/800xA](http://www.abb.com/800xA)  
[www.abb.com/controlsystems](http://www.abb.com/controlsystems)

---

800xA is a registered or pending 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© 2018 ABB All rights reserved