

# CI858

## ABB Ability™ System 800xA® hardware selector



The DriveBus protocol is used to communicate with ABB Drives and ABB Special I/O units. DriveBus is connected to the controller via a CI858 communication interface unit. The DriveBus interface is used for communication between ABB Drives and AC 800M controller.

The DriveBus communication is especially designed for sectional drive applications for ABB rolling mill drive systems, and ABB paper machine control systems. The CI858 is powered by the processor unit, via the CEX-Bus, and therefore does not require any additional external power source.

### Features and benefits

- DriveBus supports Hot Swap
- A maximum of 24 ABB drives can be connected to one CI858 and a maximum of two CI858 can be connected to an AC 800M controller. If more than one ABB drive is connected to the CI858, a branching unit NDBU is needed, which enables the construction of a logical bus with physical star topology. The branching units can be chained.

General info	
Article number	3BSE018135R1
Communication protocol	ABB's DriveBus
Master or slave	Master
Transmission speed	8 Mbit/s
Line redundancy	No
Module redundancy	No
Hot Swap	Yes
Used together with HI Controller	No

Detailed data	
Max units on CEX bus	2
Connector	Optical
24 V consumption typ.	typ 200 mA

---

**Environment and certification**

Temperature, Operating	+5 to +55 °C (+41 to +131 °F)
Temperature, Storage	-40 to +70 °C (-40 to +158 °F)
Corrosion protection	G3 compliant to ISA 71.04
Protection class	IP20 according to EN60529, IEC 529
CE- marking	Yes
Marine certificates	ABS, BV, DNV-GL, LR
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)

---

---

[solutions.abb/800xA](https://solutions.abb/800xA)  
[solutions.abb/controlsystems](https://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© 2025 ABB All rights reserved