



The CI862 Interface Module provides ABB's AC 800M controller with the full featured functionality of the TRIO/Genius-1. This provides users an easy, cost-effective evolution path from their MOD 300 family controller to ABB's flagship AC 800M controller. Current control system investments are protected with this low-risk solution. No field devices will have to be rewired. This document provides technical data on the CI862 TRIO/Genius-1 Interface Module, regardless of configuration, i.e., CI862 K01 (nonredundant) or CI862 K02 (redundant) configuration.

The CI862 TRIO/Genius-1 Redundant Interface Module is a remote I/O product that provides discrete, analog and high-speed counter blocks for connection to the ABB AC 800M Controller. Configuration of the I/O block units and the CI862 is done using Control Builder M. The CI862 Communication Expansion Module (CEM), connects a TRIO Fieldbus LAN (either single or redundant LAN) to the controller. The connection between the CI862 and the controller is done via the CEX-Bus. A single CI862 can connect 30 blocks to a single LAN. The AC 800M Controller can support up to

four LAN's (either single or redundant) and a maximum of 1,000 I/O points. The CI862 can be set to be redundant.

Functional Description

TRIO is a family of multi-channel analog and discrete I/O blocks from the Genius™ I/O line of intelligent, self-contained, configurable I/O modules. A TRIO Fieldbus connects the I/O modules to the AC 800M Controller using the CI862 TRIO Interface. The CI862 is a standard Communication Expansion (CEX) module for the AC 800M Controller.

Configuration

The ability to connect the AC 800M Controller to TRIO provides an excellent control system evolutionary path from MOD 300 to Industrial IT System 800xA. Customers with existing systems using TRIO I/O, such as anything in the MOD 300 family, can replace existing MOD controllers with ABB's latest controller technology—the AC 800M Controller—while leaving the TRIO in place. CI862 product documentation provides information on how to physically switch an existing TRIO LAN as well as TRIO block wiring information.

CI862 TRIO/Genius-1 Interface Module – Specifications	
Power Supply	24VDC (19.2-30VDC) max 5% ripple acc. to IEC 61131-1
Power Consumption at 24VDC	190mA typ.
Operating Temperature	+5 to +55 deg C (41 to 131 deg F)
Storage Temperature	-25 to 70 deg C (-13 to +158 deg F)
Relative Humidity	5 to 95%, non-condensing
Protection Class	IP20 according to EN 60529, IEC 529
Dimensions	W 58 x H 186 x D 135 mm (2.3 x 7.3 x 5.3 in.)
Weight	600g (1.3 lb.)
Certification	CE-marked, Meets EMC directive 89/336/EEC acc. to EN 50081-2 and EN 61000-6-2
Electronic Compatibility	Tested according to IEC/EN 61131-2 Product Standard
Emission	Tested according to EN 50081-2 EMC Generic Emission Standard, Part 2
Immunity	Tested according to EN 61000-6-2 EMC Generic Emission Standard, Part 2
LAN Protocol	GE/Fanuc Genius-1 Standard, Bus master
LAN Connector	Phoenix (4-pin)
TRIO LAN Transmission Speed	38.4 – 153.6 kbit/s
Accessories	TK862 TRL (TRIO Redundant Link) Cable

After disconnecting the TRIO LAN from the MOD 300 Controller (Multibus, SC or AC460) and connecting it to an AC 800M Controller using the CI862 TRIO Interface, TRIO blocks are configured in any of the IEC61131 application programming languages. Standard AC 800M engineering tools are used, e.g. Control Builder M. In addition to TRIO, AC 800M supports a multitude of different fieldbus and I/O types concurrently.

Summary

An easy, cost-effective evolution path from your MOD 300 family controller to ABB's flagship AC 800M controller – requiring no rewiring of field devices – is enabled through utilization of the CI862 Interface Module.

ABB remains dedicated to providing flexible, cost effective and complete evolution solutions for MOD 300 customers. For the latest information on evolution of MOD 300 control systems, visit www.abb.com/controlsystems or contact your local ABB representative.



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