

ABB CI853K01 3BSE018103R1

AC 800M dual RS-232C communication interface package

PACKAGE

CI853 communication module plus TP853 baseplate; ABB article 3BSE018103R1.

SERIAL LINKS

Two independent, unisolated RS-232C channels on TP853 RJ45 connectors.

CONFIGURATION

Protocol and baud selections depend on software, application and license.

SYSTEM RELATIONSHIP

The AC 800M processor powers CI853 through the CEX-Bus. COM1 and COM2 can be assigned different supported protocols, including Modbus, COMLI, Siemens 3964R and custom serial communication.

ENGINEERING RELEASE

Verify the exact package, installed host, two serial connections, configured speeds and controlled channel tests before the interface returns to service.

Technical at a glance

Every value applies to the documented CI853/TP853 package

Article number	3BSE018103R1	Port assignment	COM1 and COM2 independently configurable
Package	CI853 interface and TP853 baseplate	Galvanic isolation	Not provided
Port type	Two unisolated RS-232C channels	Module power	AC 800M processor via CEX-Bus
Physical connectors	Two RJ45 sockets on TP853	Typical current	100 mA
Protocol selection	Software, application and license dependent	Typical power dissipation	2.4 W
Supported protocol families	Modbus, COMLI, Siemens 3964R, custom	Status indication	Red error / green run / yellow traffic
Speed selection	75 to 19200 baud; protocol restrictions apply	Hot swap	Supported

Ports are not galvanically isolated. Confirm field-device and controller grounding before wiring or replacement.

Configuration and signal path

A controller-level view without assuming another CI-series interface is interchangeable

PROCESSOR / CEX-BUS

Supplies CI853 power and hosts the communication interface in the approved AC 800M architecture.

CI853 / TP853

Presents separate COM1 and COM2 RS-232C channels with modem signals and two RJ45 connections.

PROTOCOL SELECTION

Assign Modbus, COMLI, Siemens 3964R or a documented custom protocol as permitted by the application.

DIAGNOSTIC RETURN

Use red error, green run and yellow traffic indications with controller diagnostics and live communication tests.

Product FAQ

Eight distinct engineering decisions for CI853K01 3BSE018103R1

Which hardware is included in ABB CI853K01 3BSE018103R1?

The package contains the CI853 communication interface and TP853 baseplate; its ABB article number is 3BSE018103R1.

Can COM1 and COM2 use different protocols?

Yes. The two RS-232C ports may use different configured protocols, subject to software, license and application restrictions.

Where do the two serial cables connect?

Each channel connects through one of the two RJ45 connectors on the TP853 baseplate.

Which speed range is selectable on CI853?

The listed selectable speeds span 75 to 19200 baud; the chosen protocol may restrict the available selection.

Are the CI853 ports galvanically isolated?

No. Both RS-232C ports are non-isolated, so the field wiring and grounding arrangement must account for that boundary.

Does the package require an external module supply?

No additional external module supply is required; the AC 800M processor powers CI853 via the CEX-Bus.

What do the CI853 status LEDs show?

Red indicates error, green indicates run, and yellow indicates traffic; compare them with controller and port diagnostics.

Can CI853 be replaced under hot-swap procedures?

Hot swap is supported, but follow the approved controller and plant procedure and verify both serial channels after replacement.

Related system pages

Navigation links only; ABB documents remain the technical evidence

RELATED ABB CONTROL-SYSTEM PAGES

01	ABB BC810K01-3BSE031154R1 View ABB BC810K01-3BSE031154R1 page	02	ABB TB811 3BSE008568R1 View ABB TB811 3BSE008568R1 page
03	ABB CI857K01 3BSE018144R1 View ABB CI857K01 3BSE018144R1 page	04	ABB PM866K01 3BSE050198R1 View ABB PM866K01 3BSE050198R1 page
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MANUFACTURER SOURCE RECORD

ABB System 800xA Product Catalog, 3BSE091397 en S, p. 51; ABB AC 800M Controller Hardware Product Guide, 3BSE036352-610 A, sections 4.7.1 and 6.6.

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