

# TU852

## Compact Product Suite hardware selector



The TU852 is a 16 channel module termination unit (MTU) for redundant S800 I/O modules and for mounting on a horizontal DIN rail. The MTU is a passive unit used for connection of the field wiring to the I/O modules. It also contains a part of the ModuleBus.

The TU842 MTU can have up to 16 I/O channels and process voltage connections. Each channel has two uncommitted I/O connections. Normally S1-16 (signals) on X1A and U1-16 (power out) on X1B. Each DB25 include terminals for ZP, UP and EM.

The MTU distributes the two ModuleBuses to each I/O module and to the next MTU. It also generates the correct address to the I/O modules by shifting the outgoing position signals to the next MTU.

## Features and benefits

- Complete installation of I/O modules using 3-wire connections and field power distribution.
- Up to 16 channels of field signals and process power connections.
- Connections to two ModuleBuses and I/O modules.
- Mechanical keying prevents insertion of the wrong I/O module.
- Latching device to DIN rail for grounding.
- DIN rail mounting.

| General info         |  |
|----------------------|--|
| Article number       | 3BSE069964R1   |
| Type                 | Redundant  |
| Connection           | 25 pin D-sub   |
| Channels             | 16   |
| Voltage              | 50 V   |
| Mounting             | Horizontal   |
| Mounting detail      | 55 ° (131 °F)  |
| Use with I/O         | AI843, AO845A, DI840, DI880, DO840, DO880 and DP840                                    |
| Process connections  | 16 up to 16 I/O channels (2 terminals per channel), Two D-sub connectors 25 pin (male) |
| Single/redundant I/O | Redundant  |

| Detailed data                      |            |
|------------------------------------|------------|
| Maximum current per I/O channel    | 3 A        |
| Maximum current process connection | 10 A       |
| Dielectric test voltage            | 500 V a.c. |

| Environment and certification   |   |
|---------------------------------|---|
| CE mark                         | Yes   |
| Electrical safety               | EN 61010-1, UL 61010-1, EN 61010-2-201, UL 61010-2-201              |
| Hazardous Location              | ATEX Zone 2 to be released 2016                                     |
| Marine certification            | -   |
| Temperature, Operating          | 0 to +55 °C (+32 to +131 °F), approvals are issued for +5 to +55 °C |
| Temperature, Storage            | -40 to +70 °C (-40 to +158 °F)                                      |
| Pollution degree                | Degree 2, IEC 60664-1   |
| Corrosion protection            | ISA-S71.04: G3  |
| Relative humidity               | 5 to 95 %, non-condensing   |
| Max ambient temperature         | 55 °C (131 °F)  |
| Protection class                | IP20 according to IEC 60529   |
| Mechanical operating conditions | IEC/EN 61131-2  |
| EMC                             | EN 61000-6-4, EN 61000-6-2  |
| Overvoltage categories          | IEC/EN 60664-1, EN 50178  |
| Equipment class                 | Class I according to IEC 61140; (earth protected)                   |
| RoHS compliance                 | EN 50581:2012   |
| WEEE compliance                 | DIRECTIVE/2012/19/EU  |

| Dimensions |   |
|------------|---|
| Width      | 131 mm (5.16 in.) including connector, 124 mm (4.88 in.) edge to edge installed |
| Depth      | 64 mm (2.52 in.) including terminals  |
| Height     | 186.5 mm (7.34 in.) including locking device                                    |
| Weight     | 0.55 kg (1.2 lbs)   |

---

**[solutions.abb/compactproductsuite](https://solutions.abb/compactproductsuite)  
[solutions.abb/controlsystems](https://solutions.abb/controlsystems)**

---

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© 2024 ABB All rights reserved