

DATA SHEET

TU848

ABB Ability™ System 800xA® hardware selector



The TU848 is a module termination unit (MTU) for redundant configuration of Optical ModuleBus Modem TB840/TB840A.

The MTU is a passive unit having connections for double power supply (one for each modem), double electrical ModuleBus, two TB840/TB840A and a rotary switch for cluster address (1 to 7) setting.

Two mechanical keys are used to configured the MTU for the right types of modules. Each key has six positions, which gives a total number of 36 different configurations. The configurations can be changed with a screwdriver.

Termination unit TU848 has individual power supply connections and connects TB840/TB840A to redundant I/O. Termination unit TU849 has individual power supply connections and connects TB840/TB840A to non-redundant I/O.

Features and benefits

- Dual power supply connection
- A rotary switch for cluster address setting
- Mechanical keying prevents insertion of wrong module type
- Redundant ModuleBus
- · Latching device to DIN rail for locking and grounding
- DIN rail mounted

General info		
Article number	3BSE042558R1	
Communication protocol	Modulebus	
Master or slave	N/A	
Line redundancy	Yes	
Module redundancy	Yes	
Hot Swap	No	
Туре	Redundant TB840/TB840A, Redundant I/O, Dual Power	
Power input	24 V d.c (19.2 -30 V)	
Mounting	Vertical or Horizontal	

Detailed data		
Connector	N/A	
24 V consumption typ.	N/A	
ModuleBus current distribution	Maximum 5 V 1.5 A 24 V 1.5 A	
Mechanical Keys	36 different combinations	
Acceptable wire sizes	Solid: 0.2 - 2.5 mm² Stranded: 0.2 -2.5 mm², 24 -12 AWG Recomended torque: 0.5 Nm	
Rated insulation voltage	50 V	
Dialectic test voltage	500 V a.c	
Power dissipation	2.5 W	

Environment and certification		
CE- marking	Yes	
Electrical Safety	EN 61010-1, UL 61010-1, EN 61010-2-201, UL 61010-2-201	
Hazardous location	cULus Hazardous Location Class 1 Zone 2, ATEX Zone 2	
Marine certificates	ABS, BV, DNV-GL, LR	
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)	
Relative humidity	5 to 95 %, non-condensing	
Max ambient temperature	55 °C (131 °F), for vertical mounting 40 °C (104 °F)	
Equipment class	Class I according to IEC 60536; (earth protected)	
Ingress protection	IP20 according to IEC 60529	
RoHS compliance	DIRECTIVE/2011/65/EU (EN 50581:2012)	
WEEE compliance	DIRECTIVE/2012/19/EU	

Dimensions		
Width	124 mm (4.88 in.)	
Height	186.5 mm (7.34 in.) including latch	
Depth	47 mm (1.85 in.)	
Weight	0.45 kg (0.99 lbs.)	



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