CATALOG

ABB Ability™ System 800xA® 6.1.1.2

Product Catalog



Feature	TB820V2	TB825	TB826	TB840A	TB842
Certificates and standards [3]	CE mark: Yes Electrical safety: IEC 61131-2, UL 508 Hazardous Location: C1 Div 2 cULus, C1 Zone 2 cULus, ATEX Zone 2 Marine certification: ABS, BV, DNV-GL, LR (*) Corrosive atmosphere ISA-S71.04: G3 Pollution degree: Degree 2, IEC 60664-1 Mechanical operating conditions: IEC/EN 61131-2 EMC: EN 61000-6-4 and 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				

(2) 0 to +40 °C compact MTUs on vertical DIN-rail. Approvals are issued for +5 to +55 °C.
(3) For detailed information on each module, please visit: **800xahardwareselector.com**
(*)No Marine cert. for TB826

Feature	TU807	TU840	TU841	TU846	TU847	TU848	TU849	TU860
Article number	3BSE039025R1	3BSE020846R1	3BSE020848R11	3BSE022460R1	3BSE022462R1	3BSE042558R1	3BSE042560R1	3BSE078710R1
Function	Module termination unit (MTU) for single configuration of Optical ModuleBus Modem TB840/ TB840A. The MTU is a passive unit having connections for power supply, a single electrical ModuleBus, one TB840/TB840A and a rotary switch for cluster address (1 to 7) setting.	Module termination unit (MTU) for redundant configuration of Optical ModuleBus Modem TB840/ TB840A. The MTU is a passive unit having connections for power supply, double electrical ModuleBus, two TB840/ TB840A and a rotary switch for cluster address (1 to 7) setting.	Module termination unit (MTU) for redundant configuration of Optical ModuleBus Modem TB840/ TB840A, for use with non-redundant I/O. The MTU is a passive unit having connections for power supply, a single electrical ModuleBus, two TB840/TB840A and a rotary switch for cluster address (1 to 7) setting.	Module termination unit (MTU) for redundant configuration of the field communica-tion interface CI840/CI840A and redundant I/O. The MTU is a passive unit having connections for power supply, two electrical ModuleBuses, two CI840/ CI840A and two rotary switches for station address (0 to 99) settings.	Module termination unit (MTU) for redundant configuration of the field communication interface CI840/ CI840A. The MTU is a passive unit having connections for power supply, electrical ModuleBus, two CI840/CI840A and two rotary switches for station address (0 to 99) settings. A ModuleBus Optical Port TB842 can be connected to TU847 via TB806.	Module termination unit (MTU) for redundant configuration of Optical ModuleBus Modem TB840/ TB840A. The MTU is a passive unit having connections for two power supply (one for each modem), double electrical ModuleBus, two TB840/ TB840A and a rotary switch for cluster address (1 to 7) setting.	Module termination unit (MTU) for redundant configuration of Optical ModuleBus Modem TB840/ TB840A. The MTU is a passive unit having connections for two power supply, one for each modem, a single electrical ModuleBus, two TB840/ TB840A and a rotary switch for cluster address (1 to 7) setting.	Module termination unit (MTU) only for connecting S800 I/O modules to the Modulebus connector. Two mounting slots for redundant CI845 Ethernet FCI modules. Two mounting slots for redundant Ethernet Adapters. Not intended for functional safety applications. Also suitable for installation in hazardous areas classified as Zone 2 or Class I, Division 2.
Cable redundancy	No	No	No	No	No	Yes	Yes	Yes
Module redundancy	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Type	Single TB810/ TB840A, Single I/O, Single Power	Redundant TB840/ TB840A, Redundant I/O, Single Power	Redundant TB840/TB840A, Single I/O, Single Power	Redundant CI840/CI840A, Redundant I/O	Redundant CI840/ CI840A, Single I/O	Redundant TB840/ TB840A, Redundant I/O, Dual Power	Redundant TB840/ TB840A, Single I/O, Dual Power	Redundant MTU for CI845, TC810, TC811 and S800 I/O
Power Input	24 V d.c. (19.2 - 30 V)	24 V d.c (19.2 -30 V)	24 V d.c (19.2 - 30 V)	24 V d.c. (19.2 - 30 V)	24 V d.c. (19.2 - 30 V)	24 V d.c (19.2 -30 V)	24 V d.c (19.2 -30 V)	24 V d.c0 (19.2 -30 V)
Hot Swap	No	No	No	No	No	No	No	No
Mounting	Vertical or Horizontal							Vertical mounting
Power Consumption at 24 V d.c.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Connector	N/A	N/A	N/A	PROFIBUS: DSUB9 connector Service ports: RJ45 connector	PROFIBUS: DSUB9 connector Service ports: RJ45 connector	N/A	N/A	Maximum 2 FCI modules. Maximum 2 Ethernet Adapters. Inlet and connector for I/O cluster.
Acceptable wire sizes	Solid: 0.2 - 2.5 mm^2 Stranded: 0.2 - 2.5 mm^2, 24 - 12 AWG Recommended torque: 0.5 Nm	Solid: 0.2 - 2.5 mm^2 Stranded: 0.2 -2.5 mm^2, 24 -12 AWG Recomended torque: 0.5 Nm	Solid: 0.2 - 2.5 mm^2 Stranded: 0.2 -2.5 mm^2, 24 -12 AWG Recomended torque: 0.5 Nm	Solid: 0.2 - 2.5 mm^2 Stranded: 0.2 -2.5 mm^2, 24 -12 AWG Recomended torque: 0.5 Nm	Solid: 0.2 - 2.5 mm^2 Stranded: 0.2 -2.5 mm^2, 24 -12 AWG Recomended torque: 0.5 Nm	Solid: 0.2 - 2.5 mm^2 Stranded: 0.2 -2.5 mm^2, 24 -12 AWG Recomended torque: 0.5 Nm	Solid: 0.2 - 2.5 mm^2 Stranded: 0.2 -2.5 mm^2, 24 -12 AWG Recomended torque: 0.5 Nm	Solid: 0.25 – 10 mm^2, 24 – 8 AWG Stranded: 0.25 – 4 mm^2 (with ferrule) / 0.25 – 6 mm^2 (without ferule), 24 – 8 AWG Recommended torque: 0.5 – 0.8 Nm

Feature	TU807	TU840	TU841	TU846	TU847	TU848	TU849	TU860
Dielectric test voltage	500 V a.c.	500 V a.c	500 V a.c	500 V a.c	500 V a.c	500 V a.c	500 V a.c	500 V a.c.
Rated insulation voltage	50 V	50 V	50 V	50 V	50 V	50 V	50 V	50 V
Power Dissipation	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Height	186.5 mm (7.34 in.)	186.5 mm (7.34 in.)	186.5 mm (7.34 in.)	186.5 mm (7.34 in.)	186.5 mm (7.34 in.)	186.5 mm (7.34 in.)	186.5 mm (7.34 in.)	210 mm (8.26 in.)
Weight	450 g (0.99 lbs.)	450 g (0.99 lbs.)	450 g (0.99 lbs.)	500 g (1.1 lbs.)	500 g (1.1 lbs.)	450 g (0.99 lbs.)	450 g (0.99 lbs.)	500 g (1.1 lbs.)
Climatic operating conditions	0 to +55 °C (Storage -25 to +70 °C), RH=5 to 95 % no condensation, IEC/EN 61131-2 (2)							-40°C (-40°F) to +70°C (158°F) (Storage -40°C (-40°F) to +85°C (185°F)) RH=5 to 95 % no condensation
Certificates and standards [3]								
Equipment class	Class I according to IEC 60536; (earth protected)	Class I according to IEC 60536; (earth protected)	Class I according to IEC 60536; (earth protected)	Class I according to IEC 60536; (earth protected)	Class I according to IEC 60536; (earth protected)	Class I according to IEC 60536; (earth protected)	Class I according to IEC 60536; (earth protected)	Class III according to IEC 61010-2-201
Protection rating	IP20 according to IEC 60529	IP20 according to IEC 60529	IP20 according to IEC 60529	IP20 according to IEC 60529	IP20 according to IEC 60529	IP20 according to IEC 60529	IP20 according to IEC 60529	IP20 according to IEC 60529
CE- marking	Yes							
Electrical Safety	cULus	cULus	cULus	cULus	cULus	cULus	cULus	IEC/EN 61010-1, IEC 61010-2-201, UL 61010-2-201, CSA C22.2 No. 61010-2-201
Hazardous location	cULus Hazardous Location Class 1 Zone 2, ATEX Zone 2	cULus Hazardous Location Class 1 Zone 2, ATEX Zone 2	cULus Hazardous Location Class 1 Zone 2, ATEX Zone 2	cULus Hazardous Location Class 1 Zone 2, ATEX Zone 2	cULus Hazardous Location Class 1 Zone 2, ATEX Zone 2	cULus Hazardous Location Class 1 Zone 2, ATEX Zone 2	cULus Hazardous Location Class 1 Zone 2, ATEX Zone 2	EN 60079-0, EN60079-7, EN60079-15, UL 12.12.01/CSA C22.2 No. 213-17
Marine certificates	N/A	ABS, BV, DNV-GL, LR	ABS, BV, DNV-GL, LR	N/A	ABS, BV, DNV-GL, LR	ABS, BV, DNV-GL, LR	ABS, BV, DNV-GL, LR	-
RoHS compliance	EN 50581:2012							
WEEE compliance	DIRECTIVE/2012/19/EU							

(3) For detailed information on each module, please visit: 800xahardwareselector.com

S800 I/O

Extended warranty for S800 I/O Hardware

Extended warranty for S800 I/O Hardware	
	We can offer an extended warranty for one, two, three or four years in addition to normal warranty conditions for S800 I/O Hardware. See price list Extended Warranty - AC 800M, S800 & S900 I/O.

S800 I/O

ISA-S71.04 level G3 Compliance

ISA-S71.04 level G3 Compliance	
	Modules are compliant to ISA-S71.04 level G3, unless explicitly stated differently.