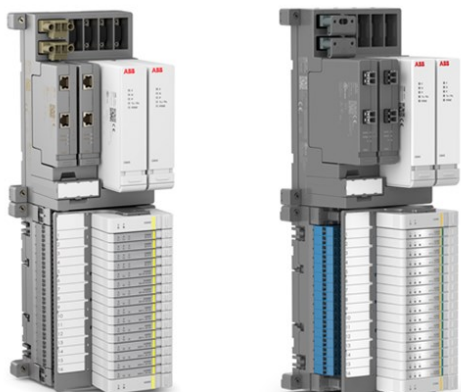


I/O Systems - Select I/O

Compact Product Suite hardware selector



Select I/O is an Ethernet networked, single channel granular I/O system for the ABB Ability™ System 800xA automation platform. Select I/O helps decouple project tasks, minimizes the impact of late changes, and supports standardization of I/O cabinetry ensuring automation projects are delivered on time and under budget.

The Signal Conditioning Modules (SCMs) are mounted in a Module Termination Unit (MTU) with 16 SCM slots. Each slot includes a removable Field Terminal Block (FTB).

Select I/O provides a comprehensive solution for simplified engineering, installation, commissioning, and late changes with features such as a built-in disconnect function, field loop current limitation, and replaceable terminal blocks. Signal Conditioning Modules (SCMs) are available for both non-SIL and SIL3 applications. The Signal Conditioning Modules (SCMs) are mounted in a Module Termination Unit (MTU) with 16 SCM slots. Each slot includes a removable Field Terminal Block (FTB).

For updated information regarding System 800xA please visit our 800xA Hardware Selector. In the HW-selector, you can compare different communication modules, AC 800M controllers, S800 I/O modules, S900 I/O modules, Select I/O modules, module termination units, network equipment, panels, power supplies, and voters, and also print your PDF files or save an outline of all modules in the product area.

Below is an outline of the range of different Select I/O modules available.



Specific feature ¹	AIS880	AIS885	AIS890	AOS880
General info				
Article number	3BSE074053R1	3BSE080108R1	3BSE074063R1	3BSE074055R1
Type	Analog Input Module - SIL3	Analog Input Module, SIL3	Analog Input Module - IS, SIL3	Analog Output Module - SIL3
Number of channels	1			
Signal specification	4...20 mA	4...20 mA 1.2 A field power	4...20 mA	
HART	Yes			
Detailed HART information	HART v7, HART pass-trough and HART variables to the application	HART v7, HART pass-through and HART variables to the application		HART v7, HART pass-trough and HART variables to the application
SOE	N/A			
Redundancy	Yes		No	Yes
Hot swap	Yes			
High integrity	Yes			
Intrinsic safety	No		Yes	No
Mechanics	Select I/O			
Dimensions				
Width	77.9 mm			
Depth	105 mm			
Height	9.8 mm			
Weight (including base)	73 g			
Environment and certification				
RoHS compliance	EU RoHS, UAE RoHS, CN RoHS			
WEEE compliance	EU			

¹ For detailed information on each module, please visit: compacthardwareselector.automation.abb.com



Specific feature ¹	CI845	DIS880	DIS890	DOS880
General info				
Article number	3BSE075853R1	3BSE074057R1	3BSE077763R1	3BSE074059R1
Type	Ethernet FCI Module	Digital Input Module - SIL3	Digital Input Module - IS, SIL3	Digital Output Module - SIL 3
Number of channels		1		
Signal specification		24V DC	NAMUR (2-wire) 0... 8.4 mA 9.3 V DC	24 V DC / 0.6 A
HART	Yes	N/A		
SOE	Yes			N/A
Redundancy	Yes		No	Yes
Hot swap	Yes			
High integrity	N/A	Yes		
Intrinsic safety	N/A	No	Yes	No
Mechanics	Select I/O			
Communication protocol	Ethernet			
Master or slave	Slave			
Dimensions				
Width	30 mm	77.9 mm		
Depth	121.7 mm	105 mm		
Height	135 mm	9.8 mm		
Weight (including base)	225 g	73 g		
Environment and certification				
RoHS compliance	EU RoHS, UAE RoHS, CN RoHS			
WEEE compliance	EU			

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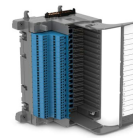
Specific feature ¹	DOS885	GIS880	HI880	TB868
General info				
Article number	3BSE074061R1	3BSE075855R1	3BSE078701R1	3BSE088162R1
Type	Digital Output Module - SIL 3	Generic I/O Module High Integrity	HI Module for Ethernet FCI	Modulebus Terminator
Number of channels	1			
Signal specification	24 V DC / 3 A			
HART	N/A	Yes	N/A	
SOE	N/A	Yes	N/A	
Redundancy	Yes	N/A		
Hot swap	Yes			
High integrity	Yes			
Intrinsic safety	No	N/A		
Mechanics	Select I/O			
Dimensions				
Width	77.9 mm		78.5 mm	135 mm
Depth	105 mm	108 mm	51.7 mm	58 mm
Height	9.8 mm	15.8 mm	19.5 mm	39.6 mm
Weight (including base)	73 g	76 g	28 g	104 g
Environment and certification				
RoHS compliance	EU RoHS, UAE RoHS, CN RoHS			
WEEE compliance	EU			

¹ For detailed information on each module, please visit: compacthardwareselector.automation.abb.com



Specific feature ¹	TC810	TC811	TU865	TUS810K01
General info				
Article number	3BSE076220R1	3BSE078714R1	3BSE078712R1	3BSE083204R1
Type	Ethernet Adapter for copper media	Ethernet Adapter for fiber optic media	MTU for Ethernet FCI (Select I/O)	Module Termination Unit
HART	N/A			
SOE	N/A			
Redundancy	Yes			
Hot swap	Yes			
High integrity	N/A			
Intrinsic safety	N/A			
Mechanics	Select I/O			
Communication protocol	Ethernet			
Type of external output	100 Base-TX with RJ 45 (8P8C) connector	100 BASE-FX with LC connector		
Number of external ports	2			
Type of connecting cable	CAT 5, WG 22 or better	9/125 µm single mode fiber (1310 nm nominal wavelength)		
Maximum length of cable	100 m	27.5 km		
Dimensions				
Width	25 mm	24.5 mm	135 mm	136 mm
Depth	76.3 mm	101.3 mm	95.5 mm	131 mm
Height	110 mm		210 mm	200 mm
Weight (including base)	105 g	161 g	500 g	1512 g
Environment and certification				
RoHS compliance	EU RoHS, UAE RoHS, CN RoHS			
WEEE compliance	EU			

¹ For detailed information on each module, please visit: compacthardwareselector.automation.abb.com



Specific feature ¹	TUS810K02
General info	
Article number	3BSE093004R1
Type	Module Termination Unit for Select I/O IS
Mechanics	Select I/O
Dimensions	
Width	136 mm
Depth	131 mm
Height	200 mm
Weight (including base)	1512 g
Environment and certification	
RoHS compliance	EU RoHS, UAE RoHS, CN RoHS
WEEE compliance	EU

¹ For detailed information on each module, please visit: compacthardwareselector.automation.abb.com

Accessories



Specific feature ¹	GFS810	GTB810	GTS810	TB861V009
General info				
Article number	3BSE093005R1	3BSE078722R1	3BSE093006R1	3BSE088163R1
Type	Ground Fault Detection Module	Grounding Terminal Bar	Grounding Termination Module	Compact Modulebus Extension
Number of channels	1			
Signal specification	0...1 Mohm			
HART	N/A			
SOE	N/A			
Redundancy	No		No	
Hot swap	Yes		Yes	
High integrity	No			
Intrinsic safety	No			
Mechanics	Select I/O			
Dimensions				
Width	77.9 mm	21.9 mm	77.9 mm	48 mm
Depth	108 mm	17.2 mm	108 mm	Length 900 mm
Height	9.8 mm	165.5 mm	15.8 mm	150.5 mm
Weight (including base)	76 g	109 g	76 g	668 g
Environment and certification				
RoHS compliance	EU RoHS, UAE RoHS, CN RoHS			
WEEE compliance	EU			

¹ For detailed information on each module, please visit: compacthardwareselector.automation.abb.com



Specific feature ¹	TB861V011	TB861V015	TL810K01	TL811K01
General info				
Article number	3BSE090352R1	3BSE088164R1	3BSE088170R1	3BSE088171R1
Type	Compact Modulebus Extension		Empty slot protector for FCI	Empty slot protector for EA
Hot swap			Yes	
Mechanics	Select I/O			
Dimensions				
Width	48 mm		134.5 mm (5.30 in.)	109.5 mm (4.31 in.)
Depth	Length 1100 mm	Length 1500 mm	38.5 mm (1.52 in.)	
Height	150.5 mm		29 mm (1.14 in.)	24.5 mm (0.96 in.)
Weight (including base)	759 g	918 g	35.5 g (0.07 lbs)	23.8 g (0.05 lbs)
Environment and certification				
RoHS compliance	EU RoHS, UAE RoHS, CN RoHS		DIRECTIVE/2011/65/EU (EN 50581:2012)	
WEEE compliance	EU		DIRECTIVE/2012/19/EU	

¹ For detailed information on each module, please visit: compacthardwareselector.automation.abb.com



Specific feature ¹	TL812K01	TL813K01	TL814K01	TL820
General info				
Article number	3BSE088172R1	3BSE088173R1	3BSE088174R1	3BSE079085R1
Type	Empty slot protector for GIO	Empty slot protector for SCM	Empty slot protector HI Module	Empty slot protector
Hot swap	Yes			
Intrinsic safety				Yes
Mechanics	Select I/O			
Dimensions				
Width	77.9 mm (3.06 in.)		72 mm (2.83 in.)	50.7 mm (2 in.)
Depth	98 mm (3.85 in.)	86.5 mm (3.41 in.)	50.5 mm (1.99 in.)	15.1 mm (0.59 in.)
Height	15.8 g (0.62 in.)	9.8 mm (0.39 in.)	19.8 mm (0.78 in.)	42 mm (1.65 in.)
Weight (including base)	26.1 g (0.06 lbs)	17 g (0.03 lbs)	16.8 g (0.03 lbs)	9 g (0.02 lbs)
Environment and certification				
RoHS compliance	DIRECTIVE/2011/65/EU (EN 50581:2012)			
WEEE compliance	DIRECTIVE/2012/19/EU			

¹ For detailed information on each module, please visit: compacthardwareselector.automation.abb.com



Specific feature ¹	TL830/TL831	TS810K01	TUW890
General info			
Article number	3BSE093013R1	3BSE090351R1	3BSE093009R1
Type	IP30 Cover	Screw Lugs	IS Separator for I/O MTU
Intrinsic safety	Yes		Yes
Mechanics	Select I/O		
Dimensions			
Width	32 mm (1.25 in.)	33 mm (1.30 in.)	110 mm (4.33 in.)
Depth	20.8 mm (0.81 in.)	10 mm (0.39 in.)	135 mm (5.31 in.)
Height	20 mm (0.78 in.)	3.5 mm (0.13 in.)	0.6 mm (0.02 in.)
Weight (including base)	TL830 2.5 g (0.005 lbs), TL831 2.7 g (0.006 lbs)	2.27 g (0.005 lbs)	9 g (0.01 lbs)
Environment and certification			
RoHS compliance	DIRECTIVE/2011/65/EU (EN 50581:2012)		
WEEE compliance	DIRECTIVE/2012/19/EU		

¹ For detailed information on each module, please visit: compacthardwareselector.automation.abb.com

Spare parts



Specific feature ¹	FTB810K01	FTB840K01	FTB890K01	PTB810K01
General info				
Article number	3BSE088180R1	3BSE093007R1	3BSE078760R1	3BSE088182R1
Type	Field Terminal Block	Field Terminal Block Redundant	Field Terminal Block IS	Power Injection Terminal Block
Redundancy	No	Yes	No	
Intrinsic safety	No		Yes	
Mechanics	Select I/O			
Dimensions				
Width	10 mm (0.39 in.)	20 mm	10 mm (0.39 in.)	41.4 mm (1.63 in.)
Depth	85.2 mm (3.35 in.)	85.2 mm	85.2 mm (3.35 in.)	72.6 mm (2.86 in.)
Height	74.8 mm (2.94 in.)	74.8 mm	74.8 mm (2.94 in.)	19.2 mm (0.75 in.)
Weight (including base)	40 g (0.08 lbs)	80 g	40 g (0.08 lbs)	38 g (0.08 lbs)
Environment and certification				
RoHS compliance	EU RoHS, UAE RoHS, CN RoHS			
WEEE compliance	EU			

¹ For detailed information on each module, please visit: compacthardwareselector.automation.abb.com



Specific feature ¹	TUC810K01
General info	
Article number	3BSE088181R1
Type	Terminal Cover
Mechanics	Select I/O
Dimensions	
Width	45.5 mm (1.79 in.)
Depth	98.5 mm (3.88 in.)
Height	200 mm (7.87 in.)
Weight (including base)	47 g (0.10 lbs)
Environment and certification	
RoHS compliance	DIRECTIVE/2011/65/EU (EN 50581:2012)
WEEE compliance	DIRECTIVE/2012/19/EU

¹ For detailed information on each module, please visit: compacthardwareselector.automation.abb.com

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