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V680S series
V680 series
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RFID System

V680S series



3 in 1 RFID: Antenna, Amplifier & Controller

Item list of V680S series

about this Product Family

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Reader/Writer

Appearance	Size	Network	Model
	50 × 50 × 30 mm	EtherNet/IP	**V680S-HMD63-EIP**
		PROFINET	**V680S-HMD63-PNT**
	75 × 75 × 40 mm	EtherNet/IP	**V680S-HMD64-EIP**
		PROFINET	**V680S-HMD64-PNT**
	120 × 120 × 40 mm	EtherNet/IP	**V680S-HMD66-EIP**
		PROFINET	**V680S-HMD66-PNT**
	50 × 50 × 30 mm	Modbus TCP (TCP/IP)	**V680S-HMD63-ETN**
	75 × 75 × 40 mm		**V680S-HMD64-ETN**
	120 × 120 × 40 mm		**V680S-HMD66-ETN**

RF Tag

V680S-series

Type	Memory capacity	Appearance	Size	Installation	Model
Battery-less	2 K bytes		40 × 40 × 5 mm	For flush mounting on metallic surface	**V680S-D2KF67M**
				For flush mounting on nonmetallic surface	**V680S-D2KF67**
			86 × 54 × 10 mm	For flush mounting on metallic surface	**V680S-D2KF68M**
				For flush mounting on nonmetallic surface	**V680S-D2KF68**
	8 K bytes		40 × 40 × 5 mm	For flush mounting on metallic surface	**V680S-D8KF67M** *
				For flush mounting on nonmetallic surface	**V680S-D8KF67** *
			86 × 54 × 10 mm	For flush mounting on metallic surface	**V680S-D8KF68M** *
				For flush mounting on nonmetallic surface	**V680S-D8KF68** *

* V680S-D8KF6[]M/V680S-D8KF6[] can be used with V680S series Reader/Writer version 2.00 or higher.

V680-series

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Type	Memory capacity	Appearance	Size	Installation	Model
Battery-less	1 K bytes		20 dia. × 2.7 mm	For flush mounting on nonmetallic surface	**V680-D1KP54T**
			34 × 34 × 3.5 mm	For flush mounting on metallic surface	**V680-D1KP66MT**
				For flush mounting on nonmetallic surface	**V680-D1KP66T**
Environment-resistant type Battery-less			95 × 36.5 × 6.5 mm	For flush mounting on nonmetallic surface	**V680-D1KP66T-SP**
High-temperature type Battery-less			80 dia. × t10 mm	For mounting with special attachment	**V680-D1KP58HTN**

Note: V680 series 8K-byte RF Tag (V680-D8KF67,V680-D8KF67M and V680-D8KF68A) can communicate with V680S series Reader/Writer.
For details, refer to the User's Manual (Cat. No. Z339, Z353 or Z354).

RF Tag Attachment

Type	Appearance	Model
For the V680-D1KP66T		**V600-A86**
For the V680-D1KP58HTN		**V680-A80**
For the V680-D1KP54T		**V700-A80**

Cable

Recommended Ethernet Cable for EtherNet/IP and PROFINET (Connection between Host Device and Reader/Writer)

Use STP (shielded twisted-pair) cable of category 5 or higher.

Item		Cable length (m) *	Model
Wire Gauge and Number of Pairs: AWG22, 2-pair Cable	Rugged type Cable with Connectors on Both Ends (M12 Straight/RJ45) 	0.3	**XS5W-T421-AMC-K**
		0.5	**XS5W-T421-BMC-K**
		1	**XS5W-T421-CMC-K**
		2	**XS5W-T421-DMC-K**
		5	**XS5W-T421-GMC-K**
		10	**XS5W-T421-JMC-K**
	Rugged type Cable with Connectors on Both Ends (M12 Right-angle/RJ45) 	0.3	**XS5W-T422-AMC-K**
		0.5	**XS5W-T422-BMC-K**
		1	**XS5W-T422-CMC-K**
		2	**XS5W-T422-DMC-K**
		5	**XS5W-T422-GMC-K**
		10	**XS5W-T422-JMC-K**

* Rugged type cables length 0.3, 0.5, 1, 2, 3, 5, 10 and 15m are available.
Note: For details, refer to the Industrial Ethernet Connectors Catalog (Cat.No.G019).

Recommended Power Cable for EtherNet/IP and PROFINET (Connection between Power Supply and Reader/Writer)

XS5F-D42[]-[]80-[]

Cable specifications	Cable length L (m)	Cable outer diameter (mm)	Straight Connectors	Angled Connectors	Minimum order
			Model		
Fire-retardant, Robot cable	1	6	**XS5F-D421-C80-F**	**XS5F-D422-C80-F**	10
	2		**XS5F-D421-D80-F**	**XS5F-D422-D80-F**	5
	3		**XS5F-D421-E80-F**	**XS5F-D422-E80-F**	
	5		**XS5F-D421-G80-F**	**XS5F-D422-G80-F**	
	10		**XS5F-D421-J80-F**	**XS5F-D422-J80-F**	1

Note: For details, refer to the Industrial Connectors Catalog (Cat. No. X082).

Cable for Modbus TCP (Connection between Host Device and Reader/Writer)

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Type	Appearance	Length	Model
Special connector --- RJ45		2 m	**V680S-A41 2M**
		5 m	**V680S-A41 5M**
		10 m	**V680S-A41 10M**
Special connector --- RJ45 (Flexible cables)		2 m	**V680S-A51 2M**
		5 m	**V680S-A51 5M**
		10 m	**V680S-A51 10M**
Special connector --- Loose wires		2 m	**V680S-A42 2M**
		5 m	**V680S-A42 5M**
		10 m	**V680S-A42 10M**

Extension Cable for Modbus TCP (Connection between Host Device and Reader/Writer)

Type	Appearance	Length	Model
Special connector --- Special connector		10 m	**V680S-A40 10M**
		20 m	**V680S-A40 20M**
		50 m	**V680S-A40 50M**
Special connector --- Special connector (Flexible cables)		2 m	**V680S-A50 2M**
		10 m	**V680S-A50 10M**
		20 m	**V680S-A50 20M**

Note: 1. The extension cable can be used for the Reader/Writer for Modbus TCP V680S-HMD6[]-ETN.
2. The cable can be extended up to 60 m by using an extension cable. Only one extension cable can be used.

Industrial Switching Hubs (Recommended Hubs)

Type	Appearance	Specifications			Model
		Functions	No. of ports	Failure detection	
Industrial Switching Hubs		Quality of Service (QoS): EtherNet/IP control data priority Failure detection: Broadcast storm and LSI error detection 10/100BASE-TX, Auto-Negotiation	3	No	**W4S1-03B**
			5	No	**W4S1-05B**
			5	Yes	**W4S1-05C**

last update: April 01, 2016

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