

V680 Series

RFID Systems with ISO/IEC 18000-3 (15693) Compliance

- High-speed communications and highly reliable communications provided with an electromagnetic induction system and unique technology.
- Antennas and RF Tags with excellent environmental resistance.
- Wide line-up of ultra-compact, long-life RF Tags, with capacities from 1 to 8 kbytes.
- Visualizes the communications status for simple analysis of the operating environment.
- Complies with FCC Rules and R&TTE Directive.



System Configuration

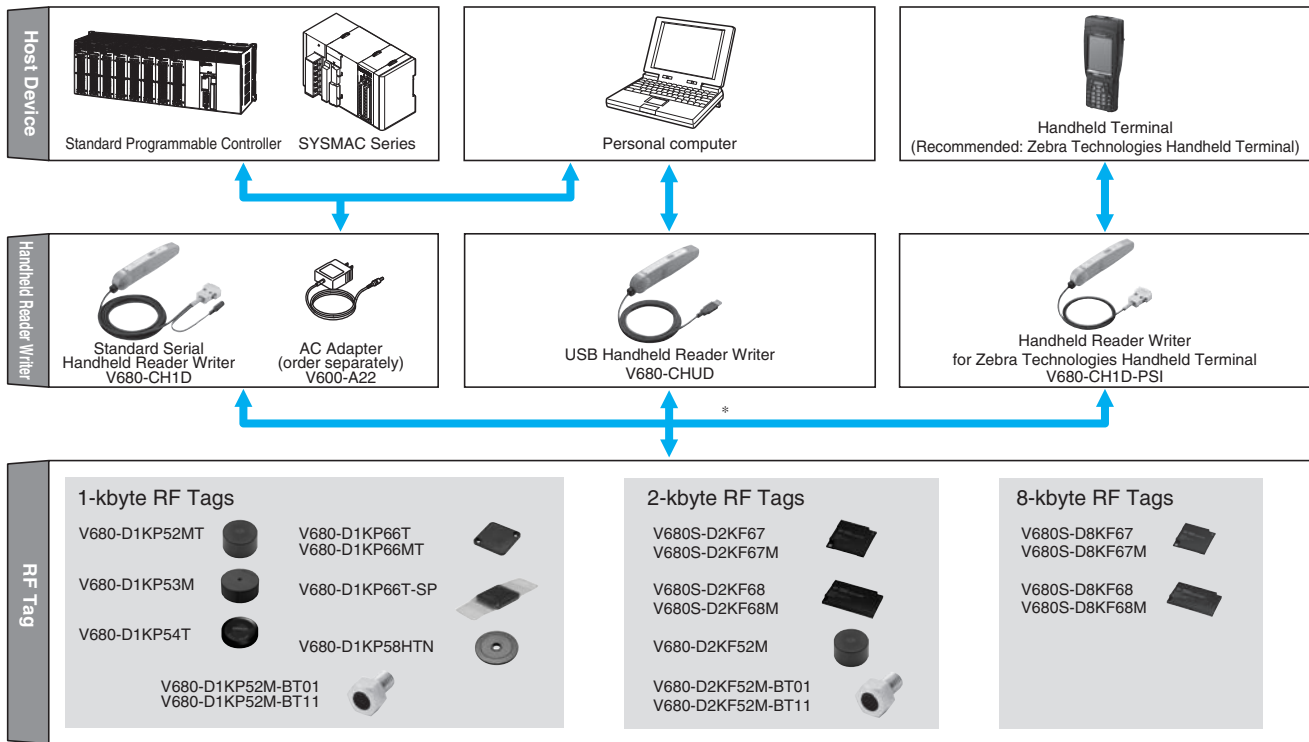
Connect V680 Antennas and Amplifier Units to a V680-series Controller, and read or write data from or to RF Tags.



* For information on the combinations that can be used, refer to *Combinations of Amplifier Units, Antennas, and RF Tags* on page 3.

V680 Series

Handheld Type



Note: Certificated as type approval of radio in 51 countries including Japan, European countries and the USA . However, some models cannot be used. Contact your OMRON sales representative for details on whether application is supported in other countries.

The latest information on the status of certification for radio wave regulations in various countries can be confirmed on the OMRON website.

* For information on the combinations that can be used, refer to *Combinations of Amplifier Units, Antennas, and RF Tags* on page 3.

Combinations of Amplifier Units, Antennas, and RF Tags

1-kbyte RF Tags

Amplifier Unit	Antenna	EEP-ROM							
		1-kbyte							
		V680-D1KP52MT	V680-D1KP53M	V680-D1KP54T	V680-D1KP66T	V680-D1KP66MT	V680-D1KP66T-SP	V680-D1KP58HTN	V680-D1KP52M-BT□1
V680-HA63A V680-HAM42-DRT V680-HAM□1	V680-HS51	Yes	Yes						Yes
	V680-HS52-□	Yes	Yes	Yes	Yes	Yes	Yes		Yes
	V680-HS63-□	Yes*		Yes	Yes	Yes	Yes		
	V680-HS65-□			Yes	Yes	Yes	Yes	Yes	
V680-HAM42-PRT	V680-HS63-W	Yes*			Yes	Yes	Yes		
	V680-HS65-W				Yes	Yes	Yes		
V680-H01-V2 (Antenna with Built-in Amplifier)					Yes			Yes	
V680-CH□D (Handheld Reader Writer)		Yes	Yes		Yes	Yes	Yes	Yes	

2-kbyte RF Tags

Amplifier Unit	Antenna	FRAM					
		2-kbyte					
		V680-D2KF52M	V680-D2KF52M-BT□1	V680S-D2KF67	V680S-D2KF67M	V680S-D2KF68	V680S-D2KF68M
V680-HA63B V680-HAM42-DRT V680-HAM□1	V680-HS51	Yes	Yes				
	V680-HS52-□	Yes	Yes	Yes	Yes		
	V680-HS63-□	Yes*		Yes	Yes	Yes	Yes
	V680-HS65-□			Yes	Yes	Yes	Yes
V680-HAM42-PRT	V680-HS63-W			Yes	Yes	Yes	Yes
	V680-HS65-W			Yes	Yes	Yes	Yes
V680-H01-V2 (Antenna with Built-in Amplifier)				Yes		Yes	
V680-CH□D (Handheld Reader Writer)		Yes		Yes	Yes	Yes	Yes

8-kbyte RF Tags

Amplifier Unit	Antenna	FRAM			
		8-kbyte			
		V680S-D8KF67	V680S-D8KF67M	V680S-D8KF68	V680S-D8KF68M
V680-HA63B V680-HAM42-DRT V680-HAM□1	V680-HS51				
	V680-HS52-□	Yes	Yes		
	V680-HS63-□	Yes	Yes	Yes	Yes
	V680-HS65-□	Yes	Yes	Yes	Yes
V680-HAM42-PRT	V680-HS63-W	Yes	Yes	Yes	Yes
	V680-HS65-W	Yes	Yes	Yes	Yes
V680-H01-V2 (Antenna with Built-in Amplifier)		Yes		Yes	
V680-CH□D (Handheld Reader Writer)		Yes	Yes	Yes	Yes

Note: For details, refer to the relevant user's manual (Z248, Z249, Z262, Z271, Z272, Z278, Z279, and Z339).

* When using the V680-D1KP52MT or V680-D2KF52M embedded in metal, use the V680-HS51/-HS52 Antenna.

Communications will not be possible if the V680-HS63 Antenna is used.

Communications will not be possible if the V680-HS65 Antenna is used with the V680-D1KP52MT, V680-D1KP53M, or V680-D2KF52M.

Communication is also possible with RF Tags other than those of the V680 Series as long as they comply with ISO/IEC 18000-3 (ISO/IEC 15693). However, communication with RF Tags other than those of the V680 Series cannot be assured. The user must confirm communication capabilities carefully prior to use.