



Product Discontinuation

Notices

July 4, 2011

RFID Systems

No. 2011209E

Discontinuation Notice of RFID System model V670 series

Product Discontinuation

RFID Systems

Recommended Replacement RFID Systems



V670 series

V680 series

Discontinuation date : The end of March, 2012

Caution on recommended replacement

1) There is no compatibility between V670 series and V680 series.

- When you use V680 series, it is necessary to replace all V670 series system by all V680 series system. 2) The tag communication time is later than V670 series.

* In detail, please confirm the operation manuals.

Difference from discontinued product

Model	Body Color	Dimen sions	Wire connection	Mounting Dimensions	Charact eristics	Operation ratings	Operation methods
V680 series					-		

** : Fully compatible

* : The change is a little/Almost compatible

-- : Not compatible

- : No corresponding specification

20120604(1)

System Configuration



Product Discontinuation and recommended replacement

Product discontinuation	Recommended replacement
V670-CD1D-V1	V680-CA5D01-V2
	V680-HA63B 0.5M
V670-H11 2M	V680-HS63-W 2M
V670-H11 0.5M	V680-HS63-W 2M
V670-H51 2M	V680-HS52-W 2M
V670-H51 0.5M	V680-HS52-W 2M
V670-H51Q 2M	None
V670-D13F01	V680-D2KF52M
V670-D13F01H	V680-D2KF52M
V670-D13F03	V680-D2KF67
V670-A81	None
V670-A40 3M	V700-A41 3M
V670-A41 10M	V700-A43 10M
V670-A42 18M	V700-A44 20M
V670-A43 28M	V700-A45 30M
V670-A54 8M	None
V670-A55 1M	None















Wire Connection



Characteristics

Controller and Amplifier unit

Item	Product discontinuation	Recommended replacement		
ILEIII	V670-CD1D-V1	V680-CA5D01-V2	V680-HA63B	
Supply voltage	24VDC ±10%	24VDC +10%/-15%		
(power consumption)	(7W max.)	(15W max., 0.8A max.)	-	
Ambient operating	0°C to +55°C	-10°C to +55°C	-10°C to +55°C	
temperature	(with no icing)	(with no icing)	(with no icing)	
Ambient operating	35 to 85%RH	25 to 85%RH	35 to 85%RH	
humidity	(with no condensation)	(with no condensation)	(with no condensation	
Ambient storage	-20°C to +75°C	-25°C to +65°C	-25°C to +65°C	
temperature	(with no icing)	(with no icing)	(with no icing)	
Ambient storage	35 to 85%RH	25 to 85%RH	35 to 85%RH	
humidity	(with no condensation)	(with no condensation)	(with no condensation	
Insulation resistance	 20MΩ min. at 100VDC between power supply terminals and ground terminal between power supply terminals and output terminals between power supply terminals and casing between output terminals and ground terminal between output terminals and casing between ground terminal and casing 	20MΩ min. at 500VDC - between power supply terminals and casing - between power supply terminals and ground terminal	20MΩ min. at 500VDC - between connector terminals and casing	
Dielectric strength	For all combinations given above; 1,000VAC (50/60Hz) for 1 minute, leakage current : 5mA max.	For all combinations given above; 1,000VAC (50/60Hz) for 1 minute	For all combinations given above; 1,000VAC (50/60Hz) for 1 minute	
Vibration resistance	10 to 150Hz, 0.2mm double amplitude at 15m/s ² in X, Y and Z directions 10 sweeps each for 8 minutes	10 to 150Hz, 0.2mm double amplitude at 15m/s ² in X, Y and Z directions 10 sweeps each for 8 minutes	10 to 500Hz, 1.5mm double amplitude at 100m/s ² in X, Y and Z directions 10 sweeps each for 11 minutes	
Shock resistance	150m/s ² , 3 times in 6 directions (X, Y, Z)	150m/s ² , 3 times in 6 directions (X, Y, Z)	500m/s ² , 3 times in 6 directions (X, Y, Z	
Material	PC / ASA resin	PC+ABS resin	PC resin	
Weight	Approx. 270g	Approx. 300g	Approx. 650g (with 10m cable)	

Characteristics

Antenna

ltem	Product discontinuation					
item	V670-H11	V670-H51	V670-H51Q			
Ambient operating						
temperature		(with no icing)				
Ambient operating	35 to 85%RH		95%RH			
humidity	(with no condensation)		ndensation)			
Ambient storage	-25°C to +85°C		o +75°C			
temperature	(with no icing)		o icing)			
Ambient storage humidity	35 to 85%RH		95%RH			
, indent storage narmaty	(with no condensation)	,	ndensation)			
Insulation resistance		20M Ω min. at 100VDC				
	between connector terminals and casing					
Dielectric strength		all combinations given abo				
	1,000VAC (50/60					
		IP67 (IEC60529)				
Degree of protection	IP67 (IE0		(without connector)			
g p	(without c	IP67g (JEM1030)				
			(with antenna part only)			
	10 to 150Hz, 0.7mm		· · · · · · · · · · · · · · · · · · ·			
Vibratian registeres	double amplitude at $50m/a^2$ in X X and Z		puble amplitude at 100m/s ²			
Vibration resistance	50m/s ² in X, Y and Z		s 10 sweeps each for 11			
	directions 10 sweeps each for 8 minutes	minutes				
	150m/s ² , 3 times					
Shock resistance	in 6 directions (X, Y, Z)	300m/s ² , 3 times in	6 directions (X, Y, Z)			
		PBT resin, brass, and	Fluorine resin /			
Material	ABS / Epoxy resin	Epoxy resin	Epoxy resin			
	Approx. 160g	Approx. 140g	Approx. 130g			
Weight	(with 2m cable)	(with 2m cable)	(with 2m cable)			

ltem	Recommended	I replacement	
nem	V680-HS52-W	V680-HS63-W	
Ambient operating temperature	-10°C to +60°C (with no icing)		
Ambient operating humidity	35 to 95%RH (with	no condensation)	
Ambient storage temperature	-25°C to +75°C	(with no icing)	
Ambient storage humidity	35 to 95%RH (with	no condensation)	
Insulation resistance	20M Ω min. at 500VDC between connector terminals and casing		
Dioloctric strongth	For all combinations given above;		
Dielectric strength	1,000VAC (50/60Hz) for 1 minute		
	IP67 (IEC60529)		
Degree of protection	In-house standard for antenna oil resistance		
Degree of protection	(former JEM standard equivalent to IP67g)		
	Note: The connector specifications	are IP67 and IP65 (IEC 60529).	
Vibration resistance	10 to 500Hz, 1.5mm double amplitude at 100m/s ²		
VIDIATION resistance	in X, Y and Z directions 10 sweeps each for 8 minutes		
Shock resistance	500m/s ² , 3 times in 6		
Material	ABS resin, brass, and Epoxy resin	ABS / Epoxy resin	
Weight	Approx. 850g (with 12.5m cable)		

Characteristics

Tag

Product discontinuation				
V670-D13F01	V670-D13F01H	V670-D13F03		
	128 bytes			
	FRAM			
10) years after reading or writir	ng		
0°C to +70°C (with no icing)				
35 to 9	5%RH	35 to 85%RH		
(with no co	ndensation)	(with no condensation)		
-"	10°C to +70°C (with no icing)		
35 to 9	95%RH	35 to 85%RH		
(with no co	ndensation)	(with no condensation)		
	IP67 (IEC60529)			
10 to 2,000Hz, 1.5mm double amplitude at 150m/s ²				
in X, Y and Z directions 10 sweeps each for 15 minutes				
500m/s ² , 3 times in 6 directions (X, Y, Z)				
PPS / Epoxy resin PBT / Epoxy resin				
	Acc (The total communication free 10 35 to 9 (with no con 	128 bytes FRAM Access frequency : 1 billion tim (The total communication frequency of the Read or Write is 10 years after reading or writir 0°C to +70°C (with no icing) 35 to 95%RH (with no condensation) -10°C to +70°C (with no icing) 35 to 95%RH (with no condensation) IP67 (IEC60529) 10 to 2,000Hz, 1.5mm double amplitude in X, Y and Z directions 10 sweeps each f 500m/s ² , 3 times in 6 directions (X		

ltom	Recommended	l replacement		
ltem	V680-D2KF52M	V680-D2KF67		
Memory capacity	2,000	bytes		
Memory type	FRA	λΜ.		
Memory longevity	Access frequency : 10 billion tin (The total communication frequency of the Re			
Data backup time	10 years after reading o 2.9 years after reading o			
Ambient operating temperature	-25°C to +85°C (with no icing)			
Ambient operating	35 to 95%RH	35 to 85%RH		
humidity	(with no condensation)	(with no condensation)		
Ambient storage temperature	-40°C to +85°C	(with no icing)		
	35 to 95%RH	35 to 85%RH		
Ambient storage humidity	(with no condensation)	(with no condensation)		
	IP67 (IEC60529)			
Degree of protection	In-house standard for oil resistance			
	(former JEM standard equivalent to IP67g)			
Vibration resistance	10 to 2,000Hz, 1.5mm double amplitude at 150m/s ²			
VIDIALION TESISLANCE	in X, Y and Z directions 10 sweeps each for 15 minutes			
Shock resistance	500m/s ² , 3 times in 6 directions (X, Y, Z)			
Material	PPS / Epoxy resin	PBT / Epoxy resin		
Weight	Approx. 0.5g	Approx. 6.5g		

Operation ratings

Communication distance

(1) V670 series

a) model V670-D13F01 and model V670-D13F01H

	Antenna	Taq	Communication of	listance (mm) (Axis of	fset: ±1mm)
Controller	(on non-metal)	(on non-metal)	Without extended cable	with extended cable	
				V670-A40 (3M)	0.5 to 5.0
	V670-H51 2M	V670-D13F01 V670-D13F01H	0.5 to 5.0	V670-A41 (10M)	0.5 10 5.0
	V670-H51Q 2M V670-H51 0.5M			V670-A42 (18M)	0.5 to 4.0
				V670-A43 (28M)	
V670-CD1D-V1			0.5 to 4.5	V670-A40 (3M)	0.5 to 4.5
V070-CD1D-V1				V670-A41 (10M)	
				V670-A42 (18M)	0.5 to 3.5
				V670-A43 (28M)	0.5 10 5.5
			Don't use	V670-A54 (8M)	0.5 to 4.5
			Dontuse	V670-A55 (1M)	0.5 10 4.5

b) model V670-D13F03

	Antenna	Tag (on non-metal)	Communication distance (mm) (Axis offset: ±1mm)			
Controller	(on non-metal)		Without extended cable	with extended	cable	
	V670-H11 2M V670-H11 0.5M	V670-D13F03	5.0 to 23.0	V670-A40 (3M)	5.0 to 21.5	
				V670-A41 (10M)	5.0 to 21.0	
V670-CD1D-V1				V670-A42 (18M)	5.0 to 20.5	
V070-CD1D-V1				V670-A43 (28M)	5.0 to 20.0	
			Don't use	V670-A54 (8M)	5.0 to 21.0	
				V670-A55 (1M)	5.0 10 2 1.0	

(2) V680 series a) model V680-D2KF52M

Amplifier	Antenna (on non-metal)	Tag	Communication distance (mm) (Axis offset: ±2mm)	
	V680-HS52 V680-HS63	V680-D2KF52M	Read	0 to 8.0
		(on non-metal)	Write	0 to 8.0
V680-HA63B		V680-D2KF52M	Read	0 to 3.0
V000-ПА03D		(in metal (iron))	Write	0 to 3.0
		V680-D2KF52M	Read	0 to 9.5
		(on non-metal)	Write	0 to 9.5

b) model V680-D2KF67

Amplifier	Antenna (on non-metal)	Tag (on non-metal)	Communication distance (mm)	
	V680-HS52 V680-HS63	V680-D2KF67	Read	0 to 17.0 (Axis offset: ±2mm)
V680-HA63B			Write	0 to 17.0 (Axis offset: ±2mm)
			Read	7.0 to 30.0 (Axis offset: ±10mm)
			Write	7.0 to 30.0 (Axis offset: ±10mm)

Operation ratings

Tag Communications Time (Reference)

(1) V670 series

Command	Number of bytes processed	Communications Time (ms) (N : Number of bytes processed)
Read	1 to 64 bytes	0.07N + 4.22
Reau	65 to 128 bytes	0.07N + 5.64
Write (without verification)	1 to 128 bytes	0.07N + 4.72
Write (with verification)	1 to 64 bytes	0.14N + 6.45
	65 to 128 bytes	0.14N + 7.79

(2) V680 series

Communications speed setting	Command	Communications Time (ms) (N : Number of bytes processed)
Normal mode	Read	1.2N + 30
	Write (without verification)	1.2N + 49
	Write (with verification)	2.4N + 49
High-speed mode (See note.)	Read	0.9N + 27
	Write (without verification)	0.9N + 41
	Write (with verification)	1.7N + 49

Note:

When using multi-access or FIFO communications options, normal-mode communications speed will be used regardless of the high-speed mode setting.