

法規と規格/Regulations and Standards

以下の海外法規、規格に対応しています。

The Products conform to the following regulations and standards.

1. UL 認証/ UL Certification

UL(Underwriters Laboratories Inc.)の認証を受けています。
V680S-HMD63-ETN, V680S-HMD63-EIP, V680S-HMD63-PNT, V680S-HMD64-ETN, V680S-HMD64-EIP, V680S-HMD64-PNT, V680S-HMD66-ETN, V680S-HMD66-EIP and V680S-HMD66-PNT have been certified by UL

下記の(1)または(2)の回路に接続してご使用ください。

(1)制限電圧電流回路 (UL508で認定されたもの)

次の条件を満たす絶縁トランスの2次側巻線を電源とする回路

・最大電圧(無負荷時):30Vrms(42.4Vピーク)以下

および

・最大電流:1.8A以下(過電流を含む場合は)

②下表の定格を持つ回路保護器(ヒューズ等)で制限されている場合

無負荷電圧(Vピーク)	最大電流定格(A)
0~20	5.0
100	100
20を超え30まで	ピーク電圧値

(2)UL1310に従うクラス2電源ユニットまたはUL1585に従うクラス2トランスを電源とする最大電圧30Vrms(42.4Vピーク)以下の回路(クラス2回路)

Connect to either circuit type (1) or (2) listed below.

(1) Limited Voltage/Current Circuit (Approved under UL 508)

A circuit that uses the secondary windings of an isolation transformer as its power supply and fulfills the following conditions:

・Maximum voltage (with no load): 30 Vrms (42.4 V peak) and

and

・Maximum current: (a) 8 A (including short-circuits) or

(b) Current limited by a circuit protection device (e.g., fuse) with the ratings listed in the following table.

No-load voltage (V peak)	Maximum current rating (A)
0 to 20	5.0
100	100
Over 20 to 30	Peak voltage

(2) A class 2 circuit with a maximum voltage of 30 Vrms (42.4 V peak) that uses a class 2 power supply conforming to UL 1310 or a class 2 transformer conforming to UL 1585 as its power source.

環境条件の範囲 (IEC61010-1にによる)

A statement of range of environmental conditions. (as per IEC61010-1)

Type of item	Control
Equipment function	RFID system
Connect on to mains supply	Permanent
Overvoltage category	II
Pollution degree	2
Means of protection	Class III
Environmental conditions	Extended (Specify) -10 to 55°C Operating Temperature
Equipment mobility	Fixed
Operating conditions	Continuous
For use in wet locations	Yes

2. 米国/ The United States

FCC ID	形式/Model
E4EV680563	V680S-HMD63-ETN V680S-HMD63-EIP V680S-HMD63-PNT
E4EV680564	V680S-HMD64-ETN V680S-HMD64-EIP V680S-HMD64-PNT
E4EV680566	V680S-HMD66-ETN V680S-HMD66-EIP V680S-HMD66-PNT

FCC NOTICE

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

FCC CAUTION

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

It is recommended that EMI Ferrite cores with case should be attached to an AC input cable of a 24VDC power supply.

Only for V680S-HMD66-ETN

Install the ferrite core (TDK type ZCAT2032-0930) on the cable to suppress RF interference.

3. 日本/ Japan

高周波利用設備 誘導式読み書き通信設備

標準規格 ARB STD-T82

Equipment using high frequencies: Inductive Reading/Writing Communications Equipment

Standard: ARB STD-T82

指定番号/Assigned number	形式/Model
第EC-14029号	V680S-HMD63-ETN V680S-HMD63-EIP V680S-HMD63-PNT
第EC-13002号	V680S-HMD64-ETN V680S-HMD64-EIP V680S-HMD64-PNT
第EC-14030号	V680S-HMD66-ETN V680S-HMD66-EIP V680S-HMD66-PNT
第EC-12012号	V680S-HMD66-ETN V680S-HMD66-EIP V680S-HMD66-PNT

4. カナダ/ Canada

IC ID	形式/Model
850J-V680563	V680S-HMD63-ETN V680S-HMD63-EIP V680S-HMD63-PNT
850J-V680564	V680S-HMD64-ETN V680S-HMD64-EIP V680S-HMD64-PNT
850J-V680566	V680S-HMD66-ETN V680S-HMD66-EIP V680S-HMD66-PNT

This device complies with Industry Canada's licence-exempt RSSs.

Operation is subject to the following two conditions:

(1) this device may not cause interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence.

L'exploitation est autorisée aux deux conditions suivantes:

(1) l'appareil ne doit pas produire de brouillage, et

(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

5. 中国/China

規則/Regulation	形式/Model
中华人民共和国	V680S-HMD63-ETN
工业和信息化部公告	V680S-HMD63-EIP
2019年 第52号	V680S-HMD63-PNT V680S-HMD64-ETN V680S-HMD64-EIP V680S-HMD64-PNT V680S-HMD66-ETN V680S-HMD66-EIP V680S-HMD66-PNT

(一) 本产品符合“微功率短距离无线电发射设备目录和技术要求”如下条款:

具体条款: 通用微功率设备 C类设备

(1)使用频率: 13553-13567kHz

(2)10米处磁场强度: 不大于42dB μ A/m (准峰值检波)

(3)频率容限: 100×10^{-6}

(4)特殊频率辐射发射: 对于13553-13567kHz 频段设备, 频段两端偏移140kHz

频率范围的10 米处磁场强度不大于9dB μ A/m (准峰值检波)

使用场强: 通用

采用的天线类型: 一体化天线

控制、调整及开关等使用方法: 不适用

(二) 不得擅自改变使用场景或使用条件, 扩大发射频率范围, 加大发射功率 (包括意外加载射频功率放大器), 不得擅自更改发射天线;

(三) 不得对其他合法的无线电台 (站) 产生有害干扰, 也不得提出免受有害干扰保护;

(四) 应当承受辐射射频能量的工业、科学及医疗 (ISM) 应用设备的干扰或其他合法的无线电台 (站) 干扰;

(五) 如对其他合法的无线电台 (站) 产生有害干扰时, 应立即停止使用, 并采取排除措施消除干扰后方可继续使用;

(六) 在航空器内和依据法律法规、国家有关规定、标准划设的射电天文台、气象雷达站、卫星地球站 (含测控、测距、接收、导航站) 等军民用无线电台 (站)、机场等的电磁环境保护区域内使用微功率设备, 应当遵守电磁环境保护及相关行业主管部门的规定;

(七) 禁止在以机场跑道中心点为圆心、半径5000米的区域内使用各类模型遥控器;

(八) 微功率设备使用时温度的环境条件: $-10^{\circ}\text{C} \sim +55^{\circ}\text{C}$

电压的环境条件: 直流20.4~26.4V

(九) 使用微功率短距离无线电发射设备应当符合国家无线电管理有关规定

6. 韓国/Rebublic of Korea

認証番号/Certification number	形式/Model
MSIP-CRM-OMR-V68151	V680S-HMD63-ETN V680S-HMD63-EIP V680S-HMD63-PNT
KCC-CRM-OMR-V68131	V680S-HMD64-ETN V680S-HMD64-EIP V680S-HMD64-PNT
KCC-CRM-OMR-V68122	V680S-HMD66-ETN V680S-HMD66-EIP V680S-HMD66-PNT

7. シンガポール/ Singapore

登録番号/Registration number	形式/Model
N0743-15	V680S-HMD63-ETN
N0742-15	V680S-HMD63-EIP
N0744-15	V680S-HMD63-PNT
N1007-13	V680S-HMD64-ETN
N0746-15	V680S-HMD64-EIP
N0745-15	V680S-HMD64-PNT
N1008-13	V680S-HMD66-ETN
N0747-15	V680S-HMD66-EIP
N0741-15	V680S-HMD66-PNT

Complies with

IMDA Standards

DB102044

8. 台湾/ Taiwan

認証番号/Certification number	形式/Model
CCAB15LP139019	V680S-HMD63-ETN
CCAB15LP139016	V680S-HMD63-EIP
CCAB15LP140012	V680S-HMD63-PNT
CCAB13LP189010	V680S-HMD64-ETN
CCAB15LP141012	V680S-HMD64-EIP
CCAB15LP142015	V680S-HMD64-PNT
CCAB13LP190013	V680S-HMD66-ETN
CCAB15LP143018	V680S-HMD66-EIP
CCAB15LP144011	V680S-HMD66-PNT

取得審驗證明之低功率射頻器材,非經核准,公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

低功率射頻器材之使用不得影響飛航安全及干擾合法通信;經發現有干擾現象時,應立即停用,並改善至無干擾時方得繼續使用。

前述合法通信,指依電信管理法規訂作業之無線電通信。

低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

9. オーストラリア・ニュージーランド/Australia and New Zealand

RCM供給者番号/Supplier number	形式/Model
E333	V680S-HMD63-ETN V680S-HMD63-EIP V680S-HMD63-PNT V680S-HMD64-ETN V680S-HMD64-EIP V680S-HMD64-PNT V680S-HMD66-ETN V680S-HMD66-EIP V680S-HMD66-PNT

10. タイ/Thailand

登録番号/Registration number	形式/Model
ธก. 0225	V680S-HMD63-ETN
ธก. 0181	V680S-HMD63-EIP
ธก. 0222	V680S-HMD63-PNT
ธก. 4442	V680S-HMD64-ETN
ธก. 0179	V680S-HMD64-EIP
ธก. 0224	V680S-HMD64-PNT
ธก. 4441	V680S-HMD66-ETN
ธก. 0180	V680S-HMD66-EIP
ธก. 0223	V680S-HMD66-PNT

11. フィリピン/Philippines

認証番号/Certification number	形式/Model
ESD-1510668C	V680S-HMD63-ETN
ESD-1510669C	V680S-HMD63-EIP
ESD-1510670C	V680S-HMD63-PNT
ESD-1307278C	V680S-HMD64-ETN
ESD-1510700C	V680S-HMD64-EIP
ESD-1510701C	V680S-HMD64-PNT
ESD-1307279C	V680S-HMD66-ETN
ESD-1510728C	V680S-HMD66-EIP
ESD-1510730C	V680S-HMD66-PNT

12. インドネシア/Indonesia

認証番号/Certification number	形式/Model
96531/SDPP/2024 P.L.G. ID 5564	V680S-HMD63-ETN
96534/SDPP/2024 P.L.G. ID 5564	V680S-HMD63-EIP
96535/SDPP/2024 P.L.G. ID 5564	V680S-HMD63-PNT
11 811/D/ID/2025 P.L.G. ID 5564	V680S-HMD64-ETN
96537/SDPP/2024 P.L.G. ID 5564	V680S-HMD64-EIP
96538/SDPP/2024 P.L.G. ID 5564	V680S-HMD64-PNT
11 818/D/ID/2025 P.L.G. ID 5564	V680S-HMD66-ETN
96536/SDPP/2024 P.L.G. ID 5564	V680S-HMD66-EIP
96533/SDPP/2024 P.L.G. ID 5564	V680S-HMD66-PNT

13. メキシコ/Mexico

認証番号/Certification number	形式/Model
RCQOMV615-0145	V680S-HMD63-ETN
RCQOMV615-0145-A2	V680S-HMD63-EIP
RCQOMV615-0145-A1	V680S-HMD63-PNT
RCQOMV613-1146	V680S-HMD64-ETN
RCQOMV613-1146-A2	V680S-HMD64-EIP
RCQOMV613-1146-A1	V680S-HMD64-PNT
RCQOMV613-1146-A1	V680S-HMD66-ETN
RCQOMV613-1146-A1	V680S-HMD66-EIP
RCQOMV613-1146-A1	V680S-HMD66-PNT

La operación de este equipo está sujeta a las siguientes dos condiciones:

(1) es posible que este equipo o dispositivo no cause interferencia perjudicial y

(2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.

14. ブラジル/ Brazil

認証番号/Certification number	形式/Model
01905-15-04358	V680S-HMD63-ETN V680S-HMD63-EIP V680S-HMD63-PNT
01671-13-04358	V680S-HMD64-ETN
01906-15-04358	V680S-HMD64-EIP V680S-HMD64-PNT
01670-13-04358	V680S-HMD66-ETN
01908-15-04358	V680S-HMD66-EIP V680S-HMD66-PNT

Este equipamento não tem direito à proteção contra interferência prejudicial e não pode causar interferência em sistemas devidamente autorizados.

15. インド/India

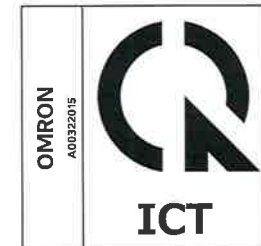
認証番号/Certification number	形式/Model
J-22022/23/2015-RO(NR)/350	V680S-HMD63-ETN V680S-HMD63-EIP V680S-HMD63-PNT
ETA-019/2013-RO(SR)/722	V680S-HMD64-ETN
J-22022/23/2015-RO(NR)/354	V680S-HMD64-PNT
ETA-020/2013-RO(SR)/723	V680S-HMD66-ETN
J-22022/23/2015-RO(NR)/355	V680S-HMD66-EIP V680S-HMD66-PNT

16. マレーシア/ Malaysia

認証番号/Certification number	形式/Model
RALI/13C/0415/S(15-0836)	V680S-HMD63-ETN
RALI/10C/0315/S(15-0834)	V680S-HMD63-EIP
RALI/14C/0415/S(15-0833)	V680S-HMD63-PNT
RALI/798/0813/S(13-0996)	V680S-HMD64-ETN
RALI/08C/0315/S(15-0472)	V680S-HMD64-EIP
RALI/12C/0415/S(15-0832)	V680S-HMD64-PNT
RALI/708/0713/S(13-0998)	V680S-HMD66-ETN
RALI/11C/0415/S(15-0837)	V680S-HMD66-EIP
RALI/16C/0415/S(15-0838)	V680S-HMD66-PNT

17. ベトナム/ Vietnam

管理番号/Control number	形式/Model
A00322015	V680S-HMD63-ETN V680S-HMD63-EIP V680S-HMD63-PNT V680S-HMD64-ETN V680S-HMD64-EIP V680S-HMD64-PNT V680S-HMD66-ETN V680S-HMD66-EIP



18. 南アフリカ/South Africa

認証番号/Certification number	形式/Model
TA-2022-0057	V680S-HMD63-EIP