

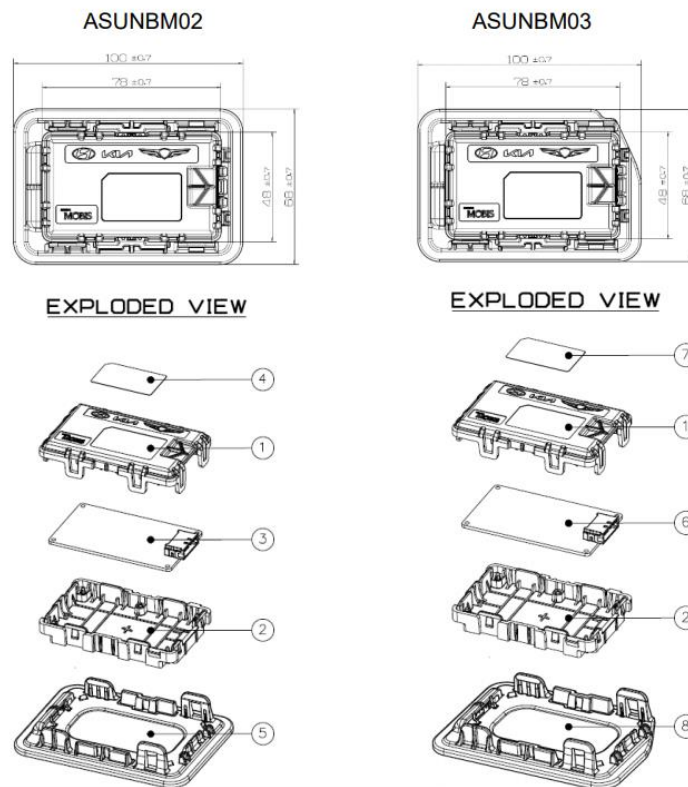
FCC Class II Permissive Change Request Letter

FCCID : 2AS9T-ASUNBM

IC : 27298-ASUNBM

1. Derivative model Description

- Derivative model name added for marketing purposes.
- Derivative models add plates of the same material but different shapes due to different mounting locations.
- Geo-Location : ASUNBM models do not support Geo-location function.
- Bluetooth LE version : ASUNBM models only support LE (1 Mbps).
- UWB version : ASUNBM models same UWB version.
- ASUNBM02 and ASUNBM03 have different plate shapes, but are otherwise identical.



Derived model	HW		SW
	ASUNBM02	Some Crystals, ICs, Coil Inductors are change. (IC Pin to pin, package same) RC is same SPEC, PKG Size, change manufacture. Same PCB, SCH. Mount plates have same material but different shape.	Different User part SW
ASUNBM03	Different User part SW		

3. Change Components List

#	Chang components	ASUNBM00/ASUNBM01	ASUNBM02/ASUNBM03
1	DC-DC Reg.	MPQ4323	MPQ4320GDE-AEC1-Z
		MPS	MPS
2	CAN transceiver	TJA1043TK/1Y	TCAN1043A-Q1
		NXP	TI
3	Crystal (BLE)	DSX211SH 48MHz	SX-2016_48MHz
		KDS	SIWARD
4	Crystal (MCU)	DSX211SH 16MHz	SX-2016_16MHz
		KDS	SIWARD
5	Capacitor	GCM188R71E474KA64D	ACS 03X 25N 474K NDA
		MURATA	Amotech
6	Capacitor	CL05C120JB51PNC	GRT1555C1H120JA02D
		Samsung Electro-Mechanics	Murata
7	Capacitor	CL05B103KB5VPNC	GRT155R71H103KE01D
		Samsung Electro-Mechanics	MURATA
8	Capacitor	GCM155R71H104KE02D	ACS 02X 50N 104K NDA
		MURATA	Amotech
9	Capacitor	GCM1555C1H100JA16D	GRT1555C1H100JA02D
		Murata	Murata
10	Capacitor	CGA4J1X7R1V475K125AC	ACS 05X 50N 475K NLA
		TDK	Amotech
11	Resistor	RMCF0402JT1K00	AC0402JR-071KL
		Stackpole	Yageo
12	Diode	PEC3124C2A-AU	PG24DAS23-RTK
		PANJIT	KEC
13	Coil Inductor	VLS3015CX-4R7M-H/4.7uH	LCXND3030QKT4R7MNG
		TDK	태양유전
14	Coil Inductor	DLW43SH101XK2L	DLW43SH510XK2L/51uH
		Murata	Murata

- The crystals of MCU and BLE have changed. These are used for internal data processing timing. BLE and UWB communicate with the MCU through SPI, so there is no effect on the RF of UWB.

Sincerely,



Taik Jin Yang

Chief Researcher