# MAR110





# 1. Specification



## 1-1. Feature and main spec

		Rear Radar		
Appearance		Corner radar LH		
Main spec	sensor	• Individual SRR		
	S/W	Radar signal processing DSP SW Warning logic (BSM/RCTA) SW		
Note		New sensor (Individual SRR) applied		

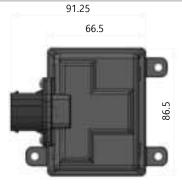
# Product Description (MAR110)



### Radar Specification (Dimension)

\17 <u>\</u>	666.5 x 86.5 x 23.96 mm(Not including connector) 91.25 x 86.5 x 23.96 mm(Including connector)
Weight	110 g





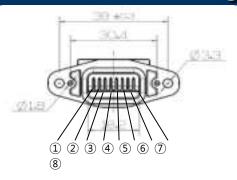


3D Modeling appearance

Top view

Bottom view

#### Connector terminal arrangement (Connected Side View of UNIT)

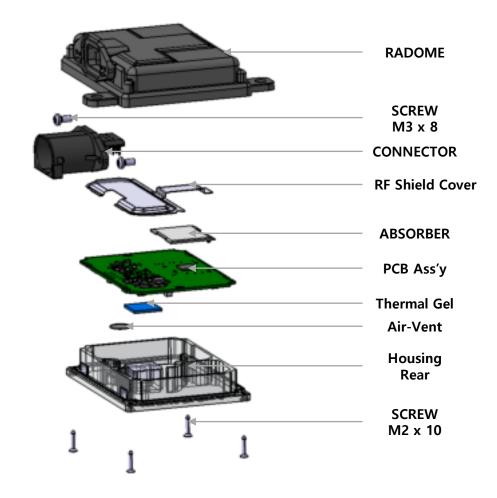


No.	Signal	Signal name	No.	Signal	Signal Name
1	Ground	시스템 GND	5	V_CAN-L	Vehicle CAN-L
2	P_CAN-H	Private CAN-H	6	V_CAN-H	Vehicle CAN-H
3	P_CAN-L	Private CAN-L	7	CAN-Lo	CAN-L
4	CAN-Hi	CAN-Hi	8	Ignition	POWER LINE

## Composition of Component (MAR110)



## Radar Spec(H/W)



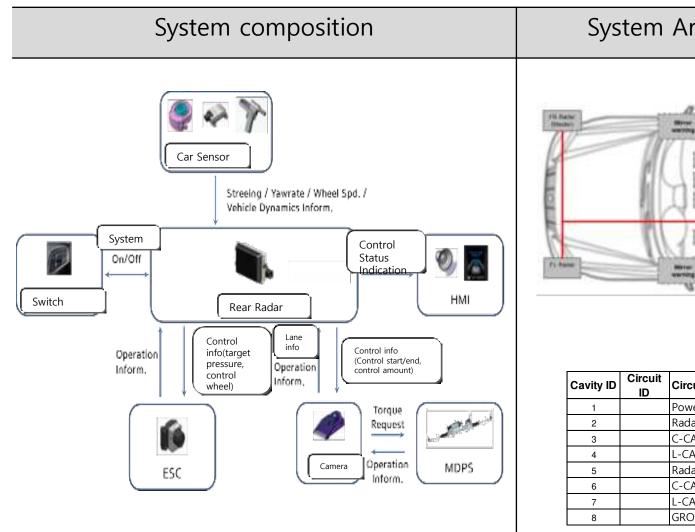
### CAN FD Supported

- 1. 2CH CAN FD supported
- 2. 1CH Selective Wake Up supported (Vehicle CAN FD transceiver)
- 3. Maximum speed 2Mbit/s

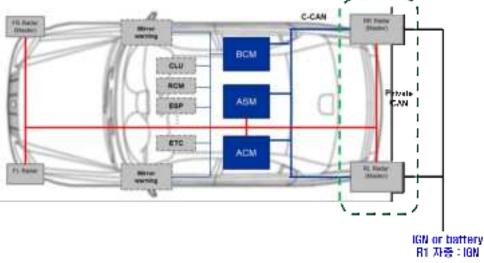
## 1. Specification



### 1-2. System composition



### System Architecture Composition



Cavity ID	Circuit ID	Circuit Function
1		Power
2		Radar Location
3		C-CAN -HI: CHASSIS CAN HI
4		L-CAN-HI: LOCAL CAN HI
5		Radar Location
6		C-CAN-LO: CHASSIS CAN LOW
7		L-CAN-LO: LOCAL CAN LOW
8		GROUND
		·

#### 2. Corner Radar Function

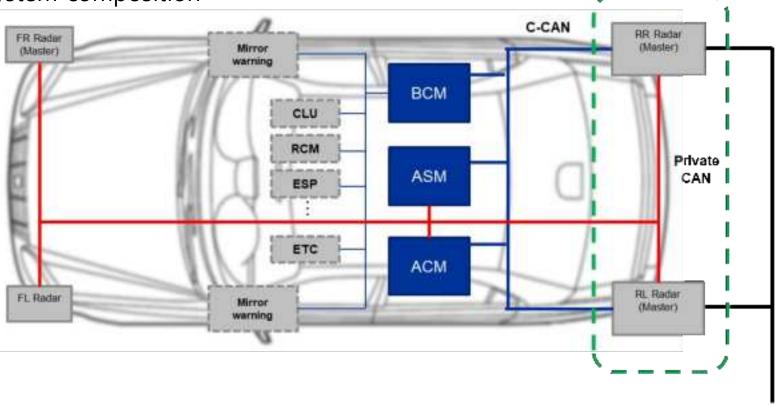


#### 1. Brief

- Detect objects around a car with 360 degree, and provide to a car (360 Tracks)
- Detect the driver's blind spot or car approaching rear lateral with radar, and give information to users(BSM)

- When going back ward, it will give alert for approaching car left/right side

2. System composition

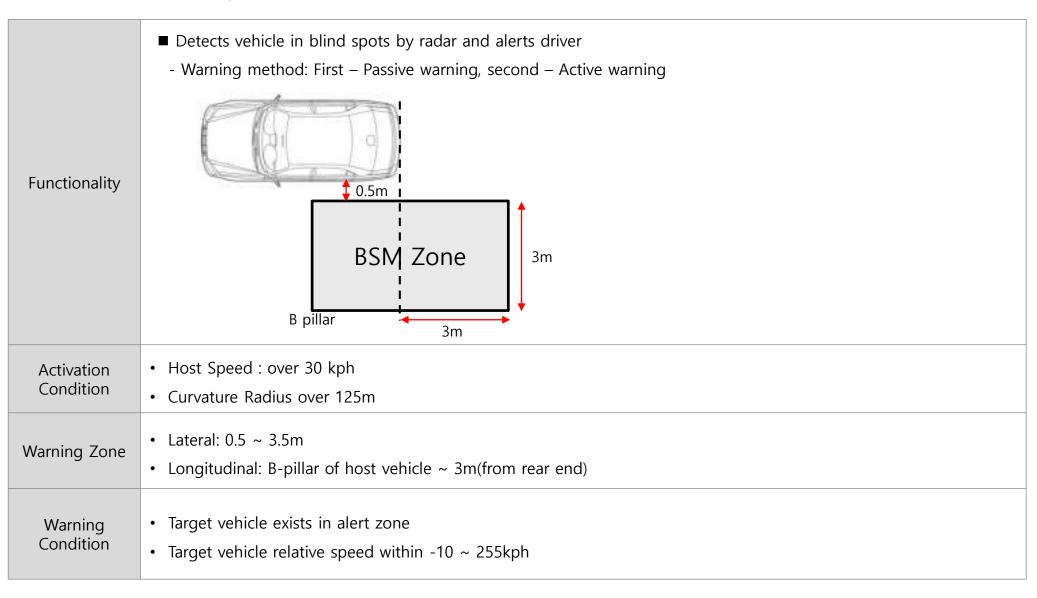


IGN or battery R1 차종: IGN

## 2. Rear Lateral Radar Function



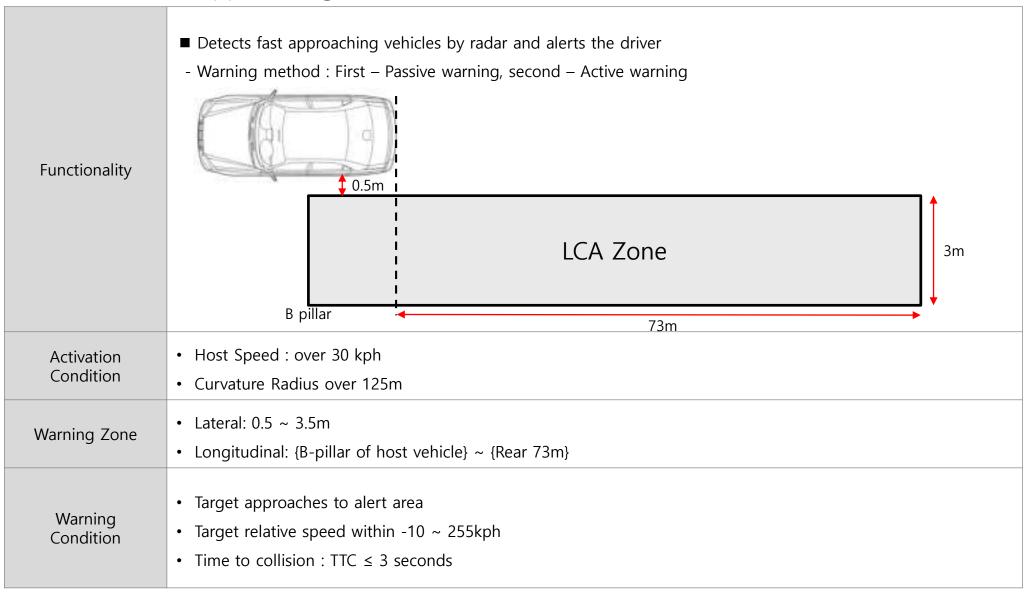
#### 2-1. BSM (Blind spot)



### 2. Rear Lateral Radar Function



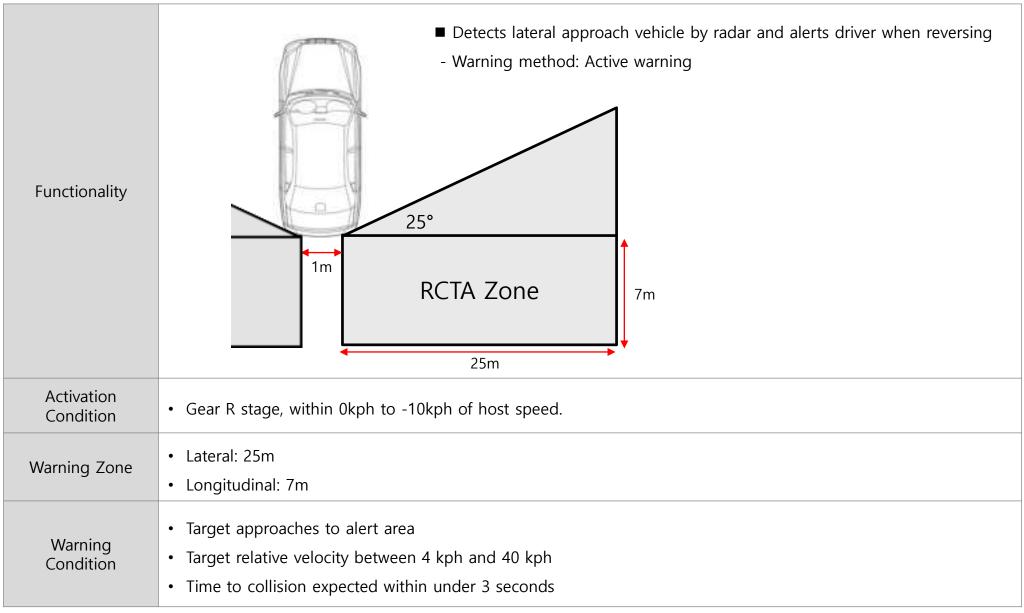
#### 2-2. BSM (Fast approaching)



## 2. Rear Lateral Radar Function



#### 2-3. RCTA



#### 3. Statements



#### **USA**

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

#### **RF Exposure Statement (MPE)**

The antenna(s) must be installed such that a minimum separation distance of at least 20 cm is maintained between the radiator (antenna) and all persons at all times. This device must not be co-located or operating in conjunction with any other antenna or transmitter.

#### 3. Statements



#### Canada

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions: (1) This device may not cause interference. (2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique 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; 2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

#### **RF Exposure Statement (MPE)**

The antenna(s) must be installed such that a minimum separation distance of at least 20 cm is maintained between the radiator (antenna) and all persons at all times. This device must not be co-located or operating in conjunction with any other antenna or transmitter.