

❏ Product information

TFBMEIBN3EU of Telematics device is designed for the automotive industry. The RF platform of TFBMEIBN3EU supports highly integrated RF technology. It incorporates a fully integrated receiver, TX outputs, TCVCXO control, a measurement interface. TFBMEIBN3EU compliant high speed data and control interface, a multi mode timer unit and all necessary front end signals for the complete RF Engine control. Overall the TFBMEIBN3EU directly supports RF engines with up to 5G bands. The TVBMQIBN1EA are based on the Qualcomm wireless chipsets and support the following RF wireless technology.

- GSM Release 9
- WCDMA : Release 9
- LTE : Release 15
- 5G NR : Release 16
- WLAN 2.4/5/6GHz
- BT LE

- **Model name** : TFBMEIBN3EU
- **Variant model name** : TFBMNINNOEN, TFBMEIBN3FR
- **Operating Voltage** : DC 12V
- **Operating Temperature** : -40°C to 90°C (ecall 95°C)
- **Storage Temperature** : -40°C to +95°C
- **Humidity** : 95% or less
- **FCC ID:** BEJTFBMEIBN3EU
- **Contains FCC ID:** BEJTM16FNNABM0
- **IC:** 2703H-TFBMEIBN3EU
- **Contains IC:** 2703H-TM16FNNABM0

❏ Physical dimension and connection Interface

Size : 262 x 175 x 28

Weight : 764g

❏ Product description

ICON contains the functionalities that enable mobile communication over the BMW eSIM, emergency call, and specific applications and services.

- ICON contains integrated (built-in) antennas.
- ICON shall cover all BMW eSIM based communication, as well as emergency call use-cases. ICON shall at least provide the following interfaces:
- All emergency call related interfaces as eCall microphone, eCall speaker, eCall button and eCall LED
- Crash Signal Line for communication with airbag ECU
- Ethernet interfaces
- Power line
- Region-specific SDARS connector.
- CAN interfaces
- WIFI communication
- Operation during eCall also on BUB possible

❏ Product function

ICON shall at least provide the following interfaces:

- All emergency call related interfaces as eCall microphone, eCall speaker, eCall button and eCall LED
- Crash Signal Line for communication with airbag ECU
- Ethernet interfaces
- Power line
- Region-specific SDARS connector.
- CAN interfaces
- WIFI communication
- operation during eCall also on BUB possible

BMW ICON25 supported band

Item	Frequency (MHz)		FDD / TDD	Supported RAT
Band	Tx	Rx		
B2	1850~1910	1930~1990	FDD	W,L,NR
B4	1710~1755	2100~2155	FDD	L
B5	824~849	869~894	FDD	W,L,NR
B7	2500~2570	2620~2690	FDD	L,NR
B12	669~716	729~746	FDD	L,NR
B13	777~787	746~756	FDD	L
B17	704~716	734~746	FDD	L
B25	1850~1915	1930~1995	FDD	L,NR
B26	814~849	859~894	FDD	L
B38	2570~2620		TDD	L
B41	2496~2690		TDD	NR
B42	3400~3600		TDD	L
B48	3550~3700		TDD	L,NR
B66	1710~1780	2110~2200	FDD	L,NR
B71	663~698	617~652	FDD	L,NR
n77	3300~4200		TDD	NR
n78	3300~3800		TDD	NR
WLAN 2.4GHz	2 412 ~ 2 462		-	-
WLAN 5GHz UNII1&2A	5 150 ~ 5 350		-	-
WLAN 5GHz UNII2C	5 470 ~ 5 725		-	-
WLAN 5GHz UNII3	5 725 ~ 5 850		-	-
WLAN 6GHz UNII5	5 925 ~ 6 425		-	-
WLAN 6GHz UNII7	6 525 ~ 6 875			
Bluetooth LE	2 402 ~ 2 480		-	-

* W : WCDMA, L : LTE, NR : 5G NR

BMW ICON25 statements

Notice

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

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.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance 4.5 cm between the radiator & Human body.

The operation of this device is prohibited on oil platforms and aircraft, except that operation of this device in 5.925-6.425 GHz is permitted in large aircraft while flying above 10,000 feet.

Installation on outdoor fixed infrastructure is prohibited.

BMW ICON25 statements

Notice

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment.
This equipment should be installed and operated with minimum distance 4.5 cm between the radiator & Human body.

NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT.
SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

Avis d'Industrie Canada sur l'exposition aux rayonnements

Cet appareil est conforme aux limites d'exposition aux rayonnements d'Industrie Canada pour un environnement non contrôlé.
Cet équipement doivent être installés et utilisés avec une distance minimale de 4.5 cm entre le radi-ateur et le corps humain.

REMARQUE: LE FABRICANT N'EST PAS RESPONSABLE DES INTERFÉRENCES RADIOÉLECTRIQUES CAUSÉES PAR DES MODIFICATIONS NON AUTORISÉES APPORTÉES À CET APPAREIL.
DE TELLES MODIFICATIONS POURRAIT ANNULER L'AUTORISATION ACCORDÉE À L'UTILISATEUR DE FAIRE FONCTIONNER L'APPAREIL.

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'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.