

FMB003 Blue-tooth settings



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Disclaimer



If you are not using Bluetooth®, **please consider turning it off** or **change Bluetooth® PIN** to remove potential risks.

If you are using Bluetooth® we strongly recommend **using AES encryption** for enhanced security.

General functionality

General	
BT Radio	
<input checked="" type="radio"/> Disable	<input type="radio"/> Enable (hidden)
<input type="radio"/> Enable (visible)	
Local Name	<input type="text"/>
Local PIN	<input type="text" value="5555"/>
Security Mode	
<input type="radio"/> PIN only	<input type="radio"/> PIN + MAC list
<input type="radio"/> MAC list only	<input checked="" type="radio"/> None

General functionality configures Bluetooth® to work in slave mode. This mode allows any external device to connect to FMB003.

Parameter *BT Radio* allows enabling or disabling Bluetooth®. There are three different settings:

- **Disabled** - Bluetooth® functionality will be disabled.
- **Enable (hidden)** - Bluetooth® functionality will be enabled, external devices will be able to connect to FMB003, but no devices will be able to detect it.
- **Enable (visible)** - Bluetooth® functionality will be enabled and any external device will be able

to detect and connect to FMB003.

It is possible to configure the Local name of the device, as well as the Local PIN, which will be used when trying to pair with the FMB003 device. There are two different parameters:

- **Local Name** parameter lets user declare a visible name of FMB003 to external devices.
- **Local PIN** parameter lets user configure Bluetooth® PIN of FMB003 device.

The FMB003 supports composed Bluetooth® Local names, which allows the user to have a predefined number of IMEI digits at the end of the device name. The format of the composed Bluetooth® name looks like this:

Device name + %imeiX

X - how many digits will be taken from IMEI to show in Local name, digits will be taken from the end of IMEI. Minimum value of X is 1 and the Maximum value is 15.


Example:

If the configured Local Name parameter is "FMB_120_%imei7" and the IMEI of the device is 352093089520901, name will be displayed as **FMB_120_9520901** (whether "_LE" is added at the end depends on whether device supports BLE or not. The full name of the device, which supports BLE would be **FMB_120_9520901_LE**).

If the Local Name is written incorrectly, the Bluetooth® name of the device will be broadcasted as it is. An example can be seen below.

Example:

If the configured Local Name parameter is "FMB_120_%ime7" devices name will be broadcasted as **FMB_120_%ime7** or if wrong X will be configured, for example "FMB_120_%imei20" devices name will broadcasted as **FMB_120_%imei20**.

 The Composed Bluetooth® name is supported from 03.25.05 firmware version.

FMB003 Bluetooth® has several different *Security Modes*:

- **PIN only** - only Local PIN will be reacquired to complete connection to FMB003.
- **PIN + MAC list** - PIN and Authorized Devices MAC List will be checked against to allow connection to FMB003. If the external device MAC ID is in the list and correct *Local PIN* is entered then connection will be established, otherwise FMB003 will reject connection.
- **MAC list only** - only *Authorized Devices MAC List* will be checked when trying to connect to FMB003. If external device MAC ID is in the list then connection will be established, otherwise FMB003 will reject connection.
- **None** - neither *Local PIN* nor *Authorized Device MAC List* will be checked.

Auto Connect to External Device

Auto Connect To External Device

Connection Mode

None	Hands Free
OBDII	Data Link
Inateck Scanner	User ID

External MAC

External Name

External PIN

Auto connection functionality configures FMB003 as master device, which allows connecting FMB003 to an external device. FMB003 currently supports these modes:

- **None** - disables auto connection functionality.
- **Hands Free** or **OBDII** - FMB003 starts searching for an external hands free headset or OBD II Dongle. If FMB003 finds a device which matches user defined *External MAC* or *External Name* then FMB003 will try to pair with that external device. If the external device asks for PIN then FMB003 will send user defined *External PIN*. After successfully pairing FMB003 will connect to paired device.
- **Data Link** - BT Data link mode is enabled by Configurator *Data Link* parameter: when **Data Link** is configured and FMB has a link with the server, paired device can send messages via Bluetooth® SPP profile directly to the server. Messages will be encoded by [Codec12](#).
- **Inateck Scanner** - FMB003 automatically connects to Inateck BT Barcode Scanner BCST-70 and will be ready to receive data (coded in barcode). *Scanner must be configured for using "ENTER" as suffix*. FMB003 supports online and inventory mode. A new record will be generated on every data portion received from scanner via SPP. Data will be stored with AVL ID 264, variable data length, max length is 32 bytes. **Note:** *Added from FW version 03.16.00.Rev.00+*
- **User ID** - This mode makes FMB003 connect automatically to a device and stores its BT MAC address in I/O element *User ID* (I/O ID: 50520). This is used for driver authentication. If there's no connection, the I/O element value is set to 0.

FMB003 supports ONE connection at a time.

- ✘ FMB003 can see up to 10 available devices. If there are more than 10 devices, the list may change with each new scan.

External Name parameter works as a substring, which allows user to enter a part of the full external device name. For example, if external device name is "HandsFreeHeadset" and user enters "HandsFree" in *External Name* parameter window, then FMB003 will be allowed to connect to an external device named "HandsFreeHeadset".

Bluetooth® solutions

- [How to connect Bluetooth® Hands Free adapter to FMB003 device](#)
- [How to connect OBD II Bluetooth® Dongle to FMB003 device](#)
- [Logging the FMB003 device using your mobile phone](#)