

# Test Report

## Inateck Bluetooth Barcode Scanner BCST-70

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## 1. General Information.

Firmware version:	03.27.12.Rev.93 (FMB0XY) 03.27.13.Rev.443 (FMC1XY, FMC2XY Meig module) 03.27.14.Rev.00 (FMB920, FMB1XY, FMM1XY, FMU1XY, FMB2XY, FMT100) 03.28.02.Rev.195 ( FMC920) 03.28.02.Rev.192 ( FMM920) 03.27.13.Rev.03 (FMB2XY, FMM2XY)
Hardware revision:	FMB0YX, FMX9X0, FMB1YX, FMU1YX, FMM1YX, FMC1YX, FMB2YX, and the model FMT100
Notes:	This test report contains the steps on how to integrate Inateck Barcode Scanner (BCST-70) on the Teltonika Telematics Devices with Configuration Settings, Data received, and Data Parsing on the server.

## 2. Requirements.

- Inateck Barcode Scanner (BCST-70)
- Teltonika FMX device.
- Server that supports Teltonika Data Protocol

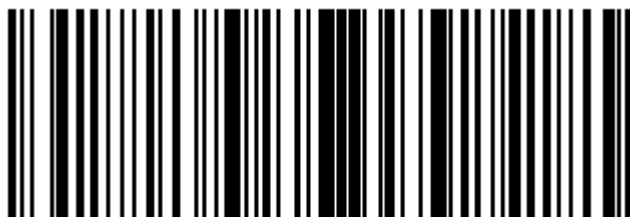
### 3. Barcode Scanner First Start

Power on Inateck BCST -70 by toggling switch from OFF to ON

#### Configure Scanner to use Enter as Suffix

**Step 1:** Make sure Scanner is configured for using *Enter as Suffix*.

1). Read the "Enter Setup" barcode;



Enter Setup

2). Read the "Apply Enter as Stop Character" barcode;



(\*) Apply Enter as Stop Character

3). Read the "Exit with Save" barcode



Exit with Save

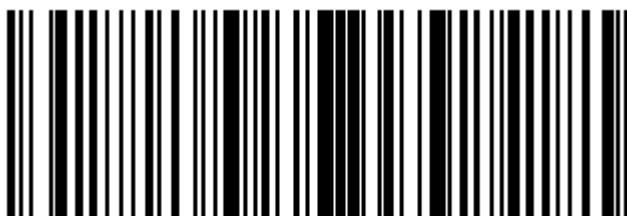
**Note:** *Inateck Scanner could not scan Barcodes through screen/monitor, barcodes should be printed as hard copy to proceed on the configuration.*

### Configure Scanner to SPP Mode

BCST-70 has Bluetooth capability that supports data transmission under HID and SPP two modes. When under HID mode, the BCST-70 connects your phone or computer automatically after pairing successfully. When under SPP mode, the BCST-70 can only finish connecting your phone or laptop with help of serial debugging tools after pairing successfully. For connection with Teltonika FM devices, scanner must use SPP Mode.

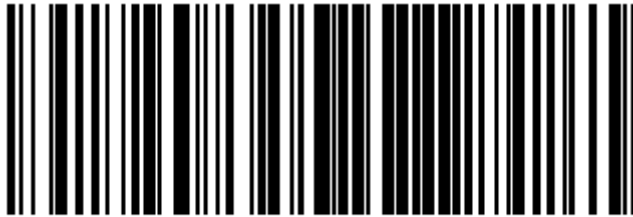
### Step 2: Configure Scanner to SPP Mode

1) Scan "Enter Setup"



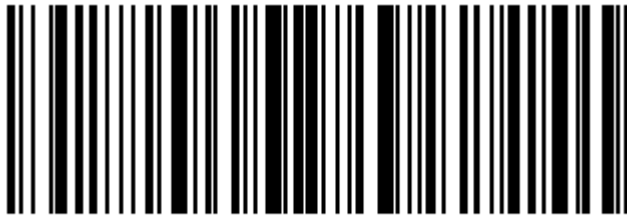
Enter Setup

2) Scan “Enable SPP mode”



Enable SPP Mode

3) Scan “Exit with Save”



Exit with Save

**Note:** *If scanner does not use SPP mode, Teltonika FM device would not detect the scanner under the Bluetooth tab*

## 4. Barcode Scanner Configuration

**Step 3:** Configure FM device using Teltonika configurator:

1. In [System settings](#), enable [Codec8 Extended](#);



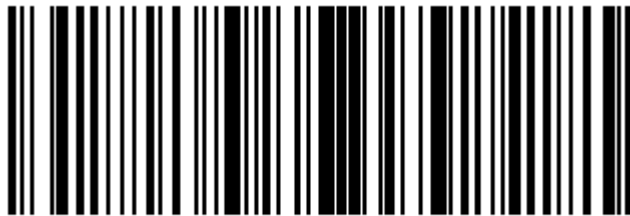
2. In [GPRS settings](#), configure [GPRS Settings and Server Settings](#)
3. In [Bluetooth](#) settings,
  - Enable Bluetooth, set this setting as either "Enable (hidden)" or "Enable (visible)", otherwise Bluetooth will be disabled;
  - Under Bluetooth Control, enable Discover so it would detect devices within vicinity.
  - Once devices are discovered, select **BCST-70-XXXX-SPP** then proceed to tick **Pair**.



**Note:** If in case the Scanner is not discovered, do the following steps below.

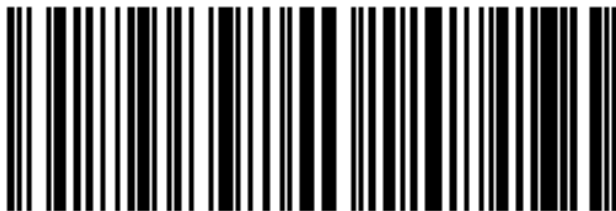
**Step 3a:** Enable Bluetooth Pairing

1. Scan “Enter Setup”



Enter Setup

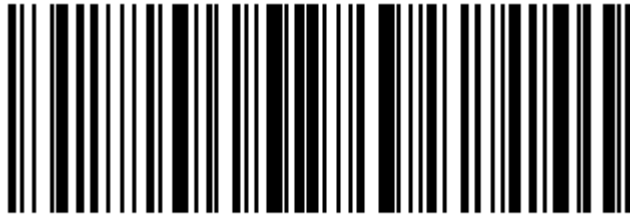
2. Scan “Bluetooth Pairing”



Bluetooth Pairing



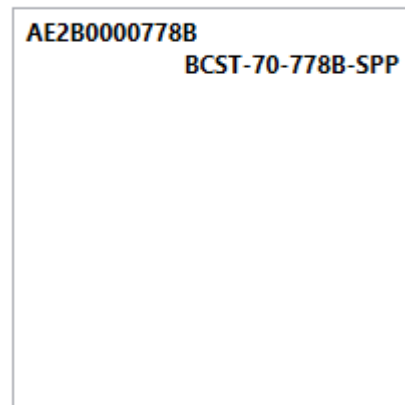
### 3. Scan “Exit with Save”



Exit with Save

- Once Pairing is successful, scanner should show under Paired Devices.

#### Paired Devices



Clear All

Clear Selected

- Fill up the “Auto Connect To External Device“ with as follows:

**Auto Connect To External Device**

Connection Mode

None	OBDII
Data Link	Inateck Scanner
User ID	

External MAC

External Name

External PIN

- Select Connection Mode as, Inateck Scanner.
- Enter the External MAC, can be seen on Paired Devices at the upper left corner.
- Enter the External Name, can be seen on Paired Devices at the lower right corner.
- Enter the External Pin, if the scanner has pin code set otherwise leave as blank.

**Note:** It is important to fill out the auto connect so you won't need to Pair the device again on the Configurator.

- Fill up the “Authorized Devices MAC List” same with the External MAC.

**Authorized Devices MAC List**

1	AE2B0000778B
2	
3	
4	
5	
Import CSV	
Export CSV	

- To receive the data to server enable corresponding BT Status IO element to Low.

BT Status	2		None	Low
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**Note:** If Scanner is connected BT Status value would be read as 2.



**Actual Data from the Parser**

I/O Element	var		
Event ID	2	264	01-08
Element count	2	7	00-07
1b Element count	2	2	00-02
ID	2	239	00-EF
Value	1	1	01
ID	2	263	01-07
Value	1	2	02
2b Element count	2	4	00-04
ID	2	181	00-B5
Value	2	0	00-00
ID	2	182	00-B6
Value	2	0	00-00
ID	2	66	00-42
Value	2	15833	3D-D9
ID	2	67	00-43
Value	2	3585	0E-01
4b Element count	2	0	00-00
8b Element count	2	0	00-00
Xb Element count	2	1	00-01
ID	2	264	01-08
Value	14		31-32-33-30-31-36-30-30-30-30-37-30-39-39
AVL Data Count	1	3	03
Crc	4	276	00-00-01-14

Sensor Data



**Note:** In order to read the actual data, header "3" in front should be removed.

Example:

Hex Data from the server: 31 32 33 30 31 36 30 30 30 30 37 30 39 39

--Eliminating 3 from the header would make the data look likes this:

Actual Data: 12301600007099

**Barcode Scanned:**



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### Data From FMC130 Device

timestamp (+04:00)	server.timestamp (+0...	ident	barcode.id	custom.param.263
27/06/2022 09:23:57	27/06/2022 09:24:30	863069058680829		1
27/06/2022 09:24:22	27/06/2022 09:24:30	863069058680829	12301600007099	2
27/06/2022 09:24:28	27/06/2022 09:24:32	863069058680829	12301600007099	2
27/06/2022 09:24:34	27/06/2022 09:24:37	863069058680829	12301600007099	2
27/06/2022 09:24:54	27/06/2022 09:24:57	863069058680829	12301600007099	2
27/06/2022 09:24:59	27/06/2022 09:25:01	863069058680829	12301600007099	2
27/06/2022 09:25:30	27/06/2022 09:25:31	863069058680829		2
27/06/2022 09:25:59	27/06/2022 09:26:02	863069058680829		2
27/06/2022 09:26:29	27/06/2022 09:26:32	863069058680829		2
27/06/2022 09:26:59	27/06/2022 09:27:02	863069058680829		2
27/06/2022 09:27:30	27/06/2022 09:27:32	863069058680829		2
27/06/2022 09:28:00	27/06/2022 09:29:09	863069058680829		2
27/06/2022 09:28:30	27/06/2022 09:29:09	863069058680829		2
27/06/2022 09:29:00	27/06/2022 09:29:09	863069058680829		2
27/06/2022 09:29:30	27/06/2022 09:29:33	863069058680829		2
27/06/2022 09:30:00	27/06/2022 09:30:03	863069058680829		2
27/06/2022 09:30:30	27/06/2022 09:30:32	863069058680829		2

Sensor Data ↑

Bluetooth Status Data →

## 6. Conclusion

The **Inateck Bluetooth Barcode Scanner (BCST-70)** was tested successfully, and concluded that it is compatible with Teltonika devices. We can use the same configuration for Inateck Barcode Scanner with Teltonika device like FMB0YX, FMX9X0, FMB1YX, FMU1YX, FMM1YX, FMC1YX, FMB2YX, and the model FMT100

## 7. Change Log.

Revision	Date	Author	Changes
01	2023-30-04	patrick.sangalang	Initial Document Created