FMC640 Product Change Notifications

Product change notifications (**PCN**) is the way of informing customers of upcoming changes related to Teltonika products. This includes outward appearance adjustments, hardware improvements, firmware changes, changes to package contents, etc. This page stores information regarding changes to the FMC640 tracking device. Below you will find a list of both upcoming and already implemented changes sorted from newest to oldest (top to bottom).

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2023.10.06: COM ports changes

We would like to inform you, that FMC640 device COM port component will be updated in the factory by the end of October 2023.

Change description		
Change type	External/visual	
Detailed description	Old version:	New version:
Description	Changes are made only in internal part of PCB for COM1 and COM2 ports sockets. This socket is 1 mm longer than the older one and in this case there could be visible changes from external side	
Change reasons	Reaction to components for COM port market volatility.	
Product release date	End of October 2023	

Affected products

Model	Affected order codes	Order code changes
FMC640	FMC640*******	No Changes

Change impact

Risk assessment	Due to new COM port housing device COM ports are protruding by 1 mm. Functionality remains unchanged.
Suggested implementation plan	No implementation plan needed

Acknowledgement of PCN receipt

If no feedback is received within two weeks after the issue date of this notification - Teltonika may accept that this change has been tacitly accepted and can implement the change as indicated above

2023.07.12: FMC640 END OF LIFE Announcement

The product End of Life (EOL) announcement signifies that a product has entered the final phase of Teltonika Product Life Cycle. Announcement serves as an advance notice of product termination in accordance with Teltonika EOL policy. Nevertheless, there is still enough time for you to order and get support that you need for the products that will be discontinued. Please contact your sales manager for more information.

End Of Production date: **2023-09-28**
Last Order date: **2023-12-28**
End of Bug-fixing date: **2024-09-28**
End of Support date: **2025-03-28**

2023.07.18: Base firmware update

We would like to inform you about the base firmware update for FMC640 starting in start - August 2023. New production firmware version will be **01.02.27.Rev.06**.

Change description

Change type	Firmware update	
Detailed description	Key improvements from last production firmware are listed in errata: https://wiki.teltonika-gps.com/view/FMC640_firmware_errata	
	Old version: FMC640 01.02.22.Rev.04	New version: FMC640 01.02.27.Rev.06
Change reasons	FMC640 base firmware version update	
Product release date	Start of August 2023.	

Affected products

Model	Affected order codes	Order code changes
FMC640	FMC640*******order codes with base Firmware	Update firmware

Change impact

Risk assessment	Client's special firmware versions or order codes with special firmware will not be updated to latest base firmware automatically. During the transition period, clients might receive devices with the previous Firmware versions used in manufacture. During transitional period, codes ordered with base Firmware version might contain 01.02.22.Rev.04 Firmware versions.
Suggested implementation plan	If you are using a special firmware version and would like an upgrade to new features of the latest base firmware, please contact your Teltonika sales manager

2023.07.10: GNSS antenna changes

We would like to inform you about the GNSS antenna changes update for FMC640 starting date changed to August 2023.

Change description

Change type	Mechanical part changes	
Detailed description	Old version: Dimensions - 45.2x35.8x15.1 mm Center frequency - 1575.42 MHz, 1602 MHz Bandwidth - 10 MHz VSWR on bandwidth - <1.5 GAIN - 2 dB LNA minimum gain - 26 dB LNA maximum gain - 30 dB Consumption - 11 mA	New version: Dimensions - 46x44x13 mm Center frequency - 1575.42 MHz, 1602 MHz Bandwidth - 35 MHz VSWR on bandwidth - <1.9 GAIN - 3 dB LNA minimum gain - 26.5 dB LNA maximum gain - 29.5 dB Consumption - 9 mA Consumption - 11 mA
Change reasons	Reaction to antenna market volatility.	
Product release date	August 2023	

Affected products

Model	Affected order codes	Order code changes
FMC640	FMC640*******order codes	No changes

Change impact

Risk assessment	No risk factors encountered with this change. New antennas were used in mass production before
Suggested implementation plan	No implementation plan needed

2023.04.12: SIM usage recommendation update

We would like to inform you about the SIM usage recommendation change - due to SIM card market tendencies (Standard size SIM cards being made to split to 3 parts) FMC640 First Start

Recommendation description

Recommendation reason	Due to SIM card market tendencies (Standard size SIM cards being made to split to 3 parts)

Detailed description	New paragraph about SIM usage is added to product First Start description. Previously SIM insertion recommendation was only described in schematics - **SIM1 shown in lower slot, SIM2 in upper slot.** Due to SIM market tendencies the documentation was updated to more clearly state SIM1 and SIM2 usage recommendations: **FMX6 devices use Standard size SIM cards for SIM1 and SIM2. Currently most of the SIM cards provided by operators can be disassembled into 3 parts - Standard/Micro/Nano. Depending on the SIM card construction - during device usage in harsh conditions, SIM assembly might come apart which causes instability when connecting to operator.** **To avoid such risk:** **1) If possible - ask operator for Standard SIM card with solid construction (not pre-cut to 3 parts)** **2) Do not use SIM cards that were previously disassembled (SIM was taken apart previously)** **3) If you plan to use only one SIM card - insert it into SIM1 slot (lower slot) - this ensures greater pressure on SIM contacts as the contact bed is pushed by PCB.** **When 2 SIM cards are used simultaneously risk is mitigated as well - when SIM1 is inserted, a greater pressure is applied for SIM2, so SIM parts are harder to come lose**

Change impact

Risk assessment	Recommendation updated to mitigate risk.
Suggested implementation plan	If you used one SIM card and it's placed in SIM1 slot (lower) - **no implementation plan needed.** If you used 2 SIM cards - SIM1 in lower slot, SIM2 in upper slot - **no implementation plan needed.** If you used eSIM - **no implementation plan needed.** If you used one SIM card and it is inserted into SIM2 slot (upper) - **to mitigate risk of bad operator connectivity due to SIM construction - for future installations - when only 1 SIM card is used - insert it into SIM1 slot (lower)** Additionally: **If possible - ask operator for Standard SIM card with solid construction (not pre-cut to 3 parts)**

2023.03.01: GNSS antenna changes

We would like to inform you about the GNSS antenna changes update for FMC640 starting date changed to March 2023.

Change description

Change type	Mechanical part changes	
Detailed description	Old version: Dimensions - 46x44x13 mm Center frequency - 1575.42 MHz, 1602 MHz Bandwidth - 35 MHz VSWR on bandwidth - <1.9 GAIN - 3 dB LNA minimum gain - 26.5 dB LNA maximum gain - 29.5 dB Consumption - 9 mA	New version: Dimensions - 45.2x35.8x15.1 mm Center frequency - 1575.42 MHz, 1602 MHz Bandwidth - 10 MHz VSWR on bandwidth - <1.5 GAIN - 2 dB LNA minimum gain - 26 dB LNA maximum gain - 30 dB Consumption - 11 mA
Change reasons	Reaction to antenna market volatility.	
Product release date	March 2023	

Affected products

Model	Affected order codes	Order code changes
FMC640	FMC640*******order codes	No changes

Change impact

Risk assessment	No risk factors encountered with this change. New antennas were used in mass production before
Suggested implementation plan	No implementation plan needed

2022.09.02: Base firmware update

We would like to inform you about the base firmware update for FMC640 starting in start - September 2022. New production firmware version will be **01.02.22.Rev.04**.

Change description

Change type	Firmware update	
Detailed description	Key improvements from last production firmware are listed in errata: https://wiki.teltonika-gps.com/view/FMC640_firmware_errata Old version: FMC640 01.00.13	New version: FMC640 01.02.22.Rev.04
Change reasons	FMC640 base firmware version update	
Product release date	Start of September 2022.	

Affected products

Model	Affected order codes	Order code changes
FMC640	FMC640*******order codes with base Firmware	Update firmware

Change impact

Risk assessment	Client's special firmware versions or order codes with special firmware will not be updated to latest base firmware automatically. During the transition period, clients might receive devices with the previous Firmware versions used in manufacture. During transitional period, codes ordered with base Firmware version might contain 01.00.13.Rev.00 and 01.02.22.Rev.02 Firmware versions.
Suggested implementation plan	If you are using a special firmware version and would like an upgrade to new features of the latest base firmware, please contact your Teltonika sales manager

Acknowledgement of PCN receipt

If no feedback is received within two weeks after the issue date of this notification - Teltonika may accept that this change has been tacitly accepted and can implement the change as indicated above

2022.05.24: GNSS antenna changes

We would like to inform you about the GNSS antenna changes for FMC640 starting September 2022.

Change description

Change type	Mechanical part changes	
Detailed description	Old version: Dimensions - 46x44x13 mm Center frequency - 1575.42 MHz, 1602 MHz Bandwidth - 35 MHz VSWR on bandwidth - <1.9 GAIN - 3 dB LNA minimum gain - 26.5 dB LNA maximum gain - 29.5 dB Consumption - 9 mA	New version: Dimensions - 45.2x35.8x15.1 mm Center frequency - 1575.42 MHz, 1602 MHz Bandwidth - 10 MHz VSWR on bandwidth - <1.5 GAIN - 2 dB LNA minimum gain - 26 dB LNA maximum gain - 30 dB Consumption - 11 mA
Change reasons	Reaction to antenna market volatility.	
Product release date	September 2022	

Affected products

Model	Affected order codes	Order code changes
FMC640	FMC640*******order codes	No changes

Change impact

Risk assessment	No risk factors encountered with this change
Suggested implementation plan	No implementation plan needed

2022.05.16: 1-wire power voltage increase

We would like to inform you that FMC640 will have increased 1-wire power output in updated PCB versions. Following the increasing demand to make "1-wire power" output 5V - starting from 2022 June - "1-wire power" output will be 5 V instead of 3.5 V.

Change description

Change type	Internal			
Detailed description	Old version:		New version:	
	1-wire interface	**Value**	**1-wire interface**	**Value**
	Power line output voltage	3.3-3.9 V	Power line output voltage	**4.5-5 V**
	Power line output current, max	140 mA	Power line output current, max	**250 mA**
Change reasons/Description	Due customer demand in having 5V output on device and increased 1-wire solution stability (where power is required)			
Product release date	June 2022.			

Affected products

Model	Affected order codes	Order code changes
FMC640	FMC640*******	1-wire output voltage increase

Change impact

Risk assessment	During the transitional period, customers might receive devices with different 1-wire power output voltages.
Suggested implementation plan	No implementation plan needed

Acknowledgement of PCN receipt

If no feedback is received within two weeks after the issue date of this notification - Teltonika may accept that this change has been tacitly accepted and can implement the change as indicated above

2021.08.03: Upgraded casing

We would like to inform you, that FMC640 device case will be updated in the factory by the end of August 2021.

Change description

Change type	External/visual	
Detailed description	Old version:	New version:
Change reasons/Description	Changes are made only in internal part of the case:. 1. Additional ribs added to battery guard walls 2. A third section of the wall added Changes are made to ensure easier and more sufficient manufacturing process of the case itself - change has no effect on device functioning.	
Product release date	End of August 2021	

Affected products

Model	Affected order codes	Order code changes
FMC640	FMC640*******	New casing

Change impact

Risk assessment	No risk factors encountered with this change
Suggested implementation plan	No implementation plan needed

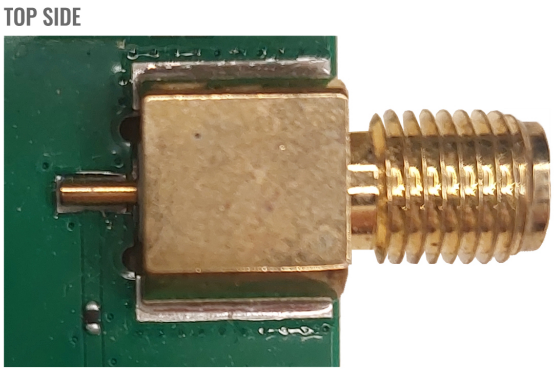
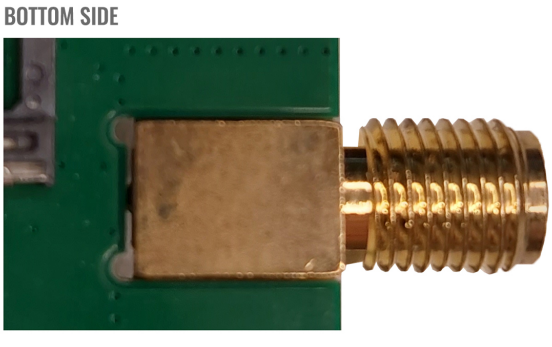
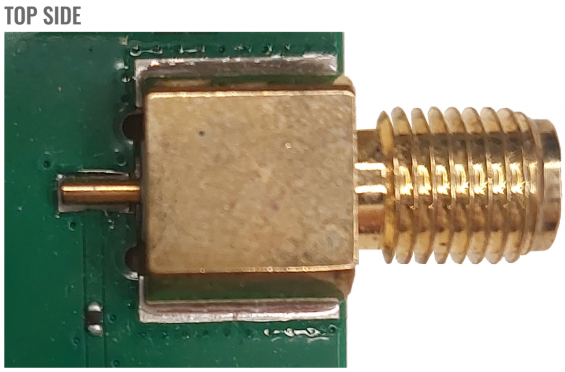
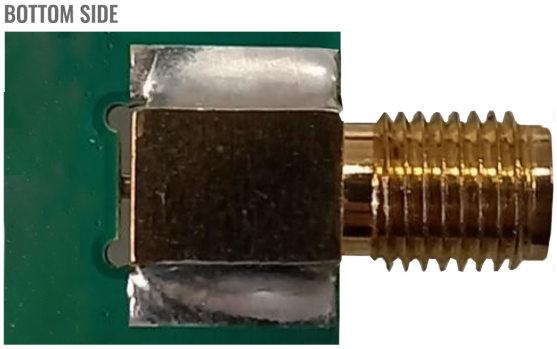
Acknowledgement of PCN receipt

If no feedback is received within two weeks after the issue date of this notification - Teltonika may accept that this change has been tacitly accepted and can implement the change as indicated above

2021.08.16: SMA soldering changes

We would like to inform you that Antenna connectors (SMA SMD type) in FMC640 devices will be soldered from both sides of PCB starting in first half of September 2021.

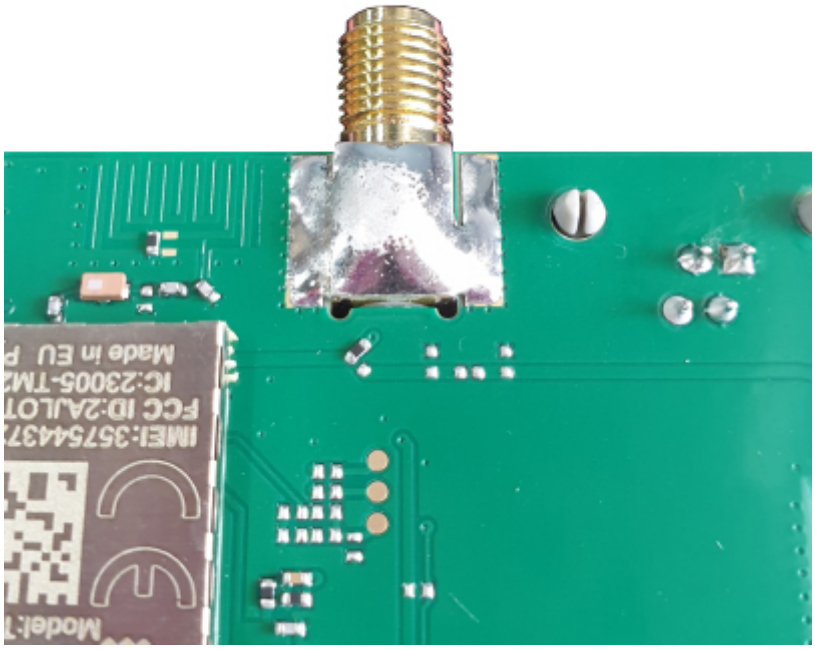
Change description

Change type	Internal
Detailed description	Old version:   New version:  
Change reasons/Description	In order to increase the structural rigidity and unify the manufacturing process of Teltonika IoT Group devices, SMA connector will be soldered on the top side of PCB (same as before) and on the bottom side of PCB (performed additionally).
Product release date	First half of September 2021.

Affected products

Model	Affected order codes	Order code changes
FMC640	FMC640*******	SMA soldering changes

Change impact

	Due to THT assembly process, some devices might have an excess amount of soldering on the SMA connector. This does not affect GSM/GNSS antenna characteristics and does not interfere with device case assembly, therefore, device functionality remains unchanged.
Risk assessment	
Suggested implementation plan	No implementation plan needed

Acknowledgement of PCN receipt

If no feedback is received within two weeks after the issue date of this notification - Teltonika may accept that this change has been tacitly accepted and can implement the change as indicated above

2021.08.03: Upgraded casing

We would like to inform you, that FMC640 device case will be updated in the factory by the end of August 2021.

Change description

Change type	External/visual	
Detailed description	Old version:	New version:
Change reasons/Description	Changes are made only in internal part of the case:. 1. Additional ribs added to battery guard walls 2. A third section of the wall added Changes are made to ensure easier and more sufficient manufacturing process of the case itself - change has no effect on device functioning.	
Product release date	End of August 2021	

Affected products

Model	Affected order codes	Order code changes
FMC640	FMC640*******	New casing

Change impact

Risk assessment	No risk factors encountered with this change
Suggested implementation plan	No implementation plan needed

Acknowledgement of PCN receipt

If no feedback is received within two weeks after the issue date of this notification - Teltonika may accept that this change has been tacitly accepted and can implement the change as indicated above

2021.05.26: Base firmware update

We would like to inform you about the base firmware update for FMC640 starting from May 26 2021. New production firmware version will be **01.00.13**.

Change description

Change type	Firmware update	
Detailed description	Key improvements from last production firmware are listed in errata: https://wiki.teltonika-gps.com/view/FMC640_firmware_errata Old version: FMC640 01.00.05	New version: FMC640 01.00.13
Change reasons	FMC640 base firmware version update	
Product release date	Second half of June 2021.	

Affected products

Model	Affected order codes	Order code changes
FMC640	FMC640*******order codes with base Firmware	Update firmware

Change impact

Risk assessment	Client's special firmware versions or order codes with special firmware will not be updated to latest base firmware automatically. During the transition period clients might receive devices with previous Firmware version used in manufacture.
Suggested implementation plan	If you are using special firmware version and would like an upgrade to new features of latest base firmware, please contact your Teltonika sales manager

Acknowledgement of PCN receipt

If no feedback is received within two weeks after the issue date of this notification - Teltonika may accept that this change has been tacitly accepted and can implement the change as indicated above

2021.05.18: New material and design changes on the device casing

We would like to inform you, that FMC640 device case will be updated in the factory on first half of June 2021.

Change description

Change type	External/visual	
Detailed description	Old version: 	New version: 
Change reasons/Description	1. New material unifies the device design across all platforms. 2. LED indentations improve Dust/Water resistance - LEDs are visible through thin layer of material. 3. New battery guard ensures battery placement during device transportation and usage.	
Product release date	First half of June 2021	

Affected products

Model	Affected order codes	Order code changes
FMC640	FMC640*******	New casing

Change impact

Risk assessment	No risk factors encountered with this change
Suggested implementation plan	Small indentation on top of USB socket will allow you to identify the cases quicker

Acknowledgement of PCN receipt

If no feedback is received within two weeks after the issue date of this notification - Teltonika may accept that this change has been tacitly accepted and can implement the change as indicated above

2020.11.24: GNSS antenna changes

We would like to inform you about the GNSS antenna changes for FMC640 starting from late December 2020 - early January 2021.

Change description

Change type	Mechanical part changes	
Detailed description	Old version:	New version:
	Dimensions - 45.2x35.8x15.1 mm	Dimensions - 46x44x13 mm
	Center frequency - 1575.42 MHz, 1600 MHz	**Center frequency - 1575.42 MHz, 1602 MHz**
	Bandwidth - 10 MHz	**Bandwidth - 35 MHz**
	VSWR on bandwidth - <1.5	VSWR on bandwidth - <1.9
	GAIN - 3 dB	GAIN - 3 dB
	LNA minimum gain - 26 dB	LNA minimum gain - 26.5 dB
	LNA maximum gain - 30 dB	LNA maximum gain - 29.5 dB
	Consumption - 11 mA	**Consumption - 9 mA**
Change reasons	According to technical comparison new antenna is better by next parameters: center frequency, bandwidth, consumption. Other parameters are the same. Moreover, the new antenna is thinner, which gives the opportunity to mount it, where it was not possible before and makes installation easier.	
Product release date	Late December 2020 - Early January 2021	

Affected products

Model	Affected order codes	Order code changes
FMB640	FMC640*******order codes	No changes

Change impact

Risk assessment	No risk factors encountered with this change
Suggested implementation plan	No implementation plan needed

2020.10.26: Base firmware update

We would like to inform you about the base firmware update for FMC640 starting from October 26th, 2020. New production firmware version will be **01.00.05**.

Change description

Change type	Firmware update	
Detailed description	Key improvements from last production firmware are listed in errata: https://wiki.teltonika-gps.com/view/FMC640_firmware_errata	
	Old version: FMC640 00.03.74.T112	New version: FMC640 01.00.05
Change reasons	FMC640 base firmware version update	
Product release date	2020 October 26th.	

Affected products

Model	Affected order codes	Order code changes
FMC640	FMC640*******order codes with base Firmware	Update firmware

Change impact

Risk assessment	Client's special firmware versions or order codes with special firmware will not be updated to latest base firmware automatically
Suggested implementation plan	If you are using special firmware version and would like an upgrade to new features of latest base firmware, please contact your Teltonika sales manager

Acknowledgement of PCN receipt

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2020.10.14: Top Marking Changes

Change description

Change type	External/visual	
Detailed description	Top label design changed Old version: 	New version: 
Change reasons	Added E-Mark approval marking. (More information: FMC640 E-Mark) Added CE approval marking. (More information: FMC640 CE/RED)	
Product release date	Planned date: 2020 October 14th	

Affected products

Model	Affected order codes	Order code changes
FMC640	FMC640******	No changes

Change impact

Risk assessment	Risk assessment for devices management required
Suggested implementation plan	No implementation plan needed

Acknowledgement of PCN receipt

If no feedback is received within two weeks after the issue date of this notification - Teltonika may accept that this change has been tacitly accepted and can implement the change as indicated above