

Iridium Edge Configuration

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Configuration

FMB Firmware implementation on FMC125

In order to enable Iridium support on FMB, first it is necessary to enable RS232 support and select “satellite backup” mode. This is available from **FW 03.28.04.Rev.104**

Correct configuration is shown in the picture below.



Next, there are a couple of configurable options. In the SBD config, IridiumEdge should be enabled and save/send period Set. This section can be found in the “Features” tab in the configurator.

The screenshot shows the 'SBD Config' window with the following settings:

- IridiumEdge:** A toggle switch with 'OFF' selected (blue background) and 'ON' (grey background).
- Save/Send period:** A numeric input field set to 1440 with up and down arrow icons.
- SBD IO source:** A selection area with 'DIN1' and 'DIN2' buttons.
- Speed:** A button below the SBD IO source selection.
- SBD Upload Limit:** A numeric input field set to 8000 with up and down arrow icons.

Setting up Alarm priority records

NOTE: In addition, you can select which IO element can generate Alarm priority record. The

configurable IO parameters are listed as SBD IO source in list above. In order to do that you need to configure these IO elements as Panic priority. If properly configured SBD records are generated and sent if there is no GSM connection.

Button List	Parameter	Value	Unit	None	Low	High	Panic	0	0	Yes	No	Monitoring	
I/O	GSM Area Code	1		None	Low	High	Panic	0	0	Yes	No	Monitoring	
LVCAN	Battery Voltage	0	mV	None	Low	High	Panic	0	0	Yes	No	Monitoring	10
FMS IO	Battery Current	0	mA	None	Low	High	Panic	0	0	Yes	No	Monitoring	10
Manual CAN IO	Active GSM Operator	24603		None	Low	High	Panic	0	0	Yes	No	Monitoring	
Tachograph serial data	Trip Odometer	0	m	None	Low	High	Panic	0	0	Yes	No	Monitoring	
RS232 \ RS485	Total Odometer	0	m	None	Low	High	Panic	0	0	Yes	No	Monitoring	
CAN \ Tachograph	Digital Input 1	1		None	Low	High	Panic	0	0	Yes	No	On Entrance	1
Continental TPMS	Digital Input 2	1		None	Low	High	Panic	0	0	Yes	No	On Entrance	1

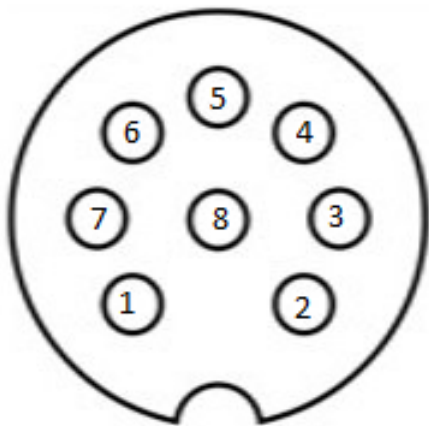
In the scenario shown in the above picture when panic record is made (generated by *Digital Input 1* or *Digital Input 2*) internal 90 seconds timer will start to tick and if in that timeout device will not send the record through GPRS network it will be sent with Iridium satellites.

SBD Upload Limit is configurable and resets every month. This option can ensure that no additional data is used so that no unexpected costs are experienced by the customer. Default value is 8000 (for 8KB plan). This option can be disabled by setting Upload limit to 0.

NOTE: SBD IO source functionality is still being implemented.

FMB Firmware configuration on FMX640/FMX641 devices

FMX640 can be setup with Iridium Edge by activating RS232 short burst data parameters, this is available from **FW 01.02.18.Rev.00**. It can be done visiting this tutorial [Here](#).



PIN OUT Configuration

Pin Number	Signal Name	Color	Signal Direction (With respect to iridium edge)	Description

1	Spare	White	-	Unused
2	Ground	Brown	Input	Signal and power GND
3	RS232_RX	Green	Input	RS232 input
4	RS232_TX	Yellow	Output	RS232 output
5	Power	Pink	Input	9-32 V positive terminal
6	ON/OFF	Grey	Input	Optional line to power down Iridium edge
7	Network available	Blue	Output	-
8	Power detection	Red	Output	Active high when Iridium Edge is powered

Important note: There is a noticeable difference in Iridium 8-pin cable layout from the standard version of the cable. We recommend purchasing a specific Iridium-made and certified 8-PIN cable directly from Teltonika. Please contact your administered sales representative to make an order.