

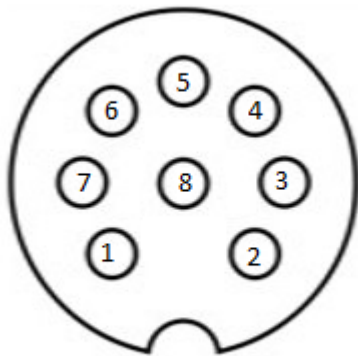
Template:FMM640 Short burst data settings

Short burst data settings

supports Iridium devices which can send short burst data (SBD) to the server. This means that some data can be sent from FM device to the server through satellites.

In order to properly connect the Iridium device to , Iridium has to be connected to the device via RS-232 - COM1 or COM2 (with RJ-45 connector, where 4 pin is GND, 5 pin is RS232 Rx and 6 PIN is RS232 Tx). Additionally **Pin No. 6** - power control (reference in the image below) must be connected to one of the DOUTs (1/2/3/4), in order to allow the device to power ON/OFF Iridium device on demand. More information about SBD can be found here [Short Burst Data](#).

Iridium Edge pinout and RS232 COM 1/2 connection:



Short burst data settings

TSM232 and Iridium Edge

Disable

Enable

Power control DOUT

None

DOUT 1

DOUT 2

DOUT 3

DOUT 4

Save/Send period (min)

1

SBD Upload Limit

8 KB

SBD IO source

DIN 1

DIN 2

DIN 3

DIN 4

DOUT 1

DOUT 2

DOUT 3

DOUT 4

Speed

When the Iridium edge device is connected **Power control DOUT** configures DOUT pin which can control Iridium Edge ON/OFF pin. Configure if DOUT pin is connected. Respective power control DOUT to which the Iridium device's *PIN6* is connected must be selected.

Save/Send period configures how long will FMB device wait after losing the signal to generate SBD packet. If the signal is not recovered, it will send it indefinitely (or till the SBD Upload limit is reached, if such is set).

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. The default value is 8000 (for 8KB plan). This option can be disabled by setting the Upload limit to 0. The monthly data usage counter can be reset by using the SMS/GPRS command - **sbdlimitsreset**.

SBD IO source configures IO source which can trigger SBD record saving. 9 elements can generate an Alarm for SDB sending. These elements are:

- Digital input 1
- Digital input 2
- Digital input 3
- Digital input 4
- Digital output 1
- Digital output 2
- Digital output 3
- Digital output 4
- Speed

Configurator parameter IDs and their explanation:

Parameter ID	Parameter name	Values			Explanation
		Min	Max	Default	
99420	Iridium Edge	0	1	0	This parameter enables or disables Iridium Edge functionality
99421	Save/Send period	0	1440	1440	This parameter lets to configure Iridium Edge sending period
99422	SBD IO source*	0	8	0	SBD IO elements which when enabled are included into the SBD record
99423	SBD UploadLimit	0	30000	8000	Limit to save user from exceeding the monthly plan. Max limit of 30000 due to 30KB plan. If set to 0 - limit will be off.
99424	Power control DOUT	1	5	0	Device DOUT which can control ON/OFF pin of the Iridium Edge
151	RS232 Mode	0	23	0	RS-232 mode selection. "Satellite backup" - 15

* SBD IO source parameter is configured with bitmasks:

- eSBD_IO_Bit_Disabled = 0x00,
- eSBD_IO_Bit_Din1 = 0x01,
- eSBD_IO_Bit_Din2 = 0x02,
- eSBD_IO_Bit_Din3 = 0x04,
- eSBD_IO_Bit_Din4 = 0x08,
- eSBD_IO_Bit_Do1 = 0x10,
- eSBD_IO_Bit_Do2 = 0x20,
- eSBD_IO_Bit_Do3 = 0x40,
- eSBD_IO_Bit_Do4 = 0x80,
- eSBD_IO_Bit_Speed = 0x100

For example: to enable Din1, Din3 and Do4: $0x01 + 0x04 + 0x80 = 0x85$ convert to decimal --> 133.