

FMM130 Network settings

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Network settings

LTE bands	
LTE B1	LTE B2
LTE B3	LTE B4
LTE B5	LTE B8
LTE B12	LTE B13
LTE B18	LTE B19
LTE B20	LTE B26
LTE B28	LTE B39

Network Settings

A device with external Quectel BG96 modem is named FMMxxx.

Quectel BG96 has different connection sequence from firmware side compared to other modems.

Network settings method is called on these occasions:

1. The modem is initialized.
2. The configuration has changed.

3. Periodically every 60 seconds after startup.

On each network, settings call changes are checked. The firmware sends configuration commands when they change. The on-device startup, all these commands are always sent as we don't know whether they have changed.

Network Settings

Network mode

Auto

2G

4G

IOT Network mode

CAT-M1

NBIOT

CAT-M1 & NBIOT

Band selection mode

Auto

Manual

LTE bands

Quectel BG96 modem has 14 LTE network bands. According to Quectel, each band can take up to 5 minutes to scan. To improve scan speed geographic bands have been implemented.

Geographic bands are functionality that sets (changes) configuration bands according to the device's GPS location. Functionality is only active when band selection mode is "Auto". It is run from network settings method (see above).

Bands by location

Location	Abrevation	Bands set
the United States of America	US	B2 B4 B12 B13
Europe	EU	B3 B8 B20
Korea	KR	B3 B5
Australia	AU	B3 B28
The Middle East	ET	B3 B8 B28
Japan	JP	B1 B8 B18 B19
China	CH	B1 B3 B5 B8 B26 B39

Advanced Bands

LTE bands

LTE B1	LTE B2
LTE B3	LTE B4
LTE B5	LTE B8
LTE B12	LTE B13
LTE B18	LTE B19
LTE B20	LTE B26
LTE B28	LTE B39

Operator connection

The device saves to memory last seen operator and its' network type. When there is no operator attached, the device tries to attach to the last seen operator on 4G IoT network mode. If the connection fails, the device clears last seen operator from memory and starts a new operator search. The same sequence happens when the preferred operator is given (configured), but instead of clearing the operator, the device each time connecting first tries to connect to preferred operator.