

FMM125 Network settings

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Network settings



Network Settings

Device with external Quectel BG96 modem are named FMMXXX.

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

Network settings method is called on these occasions:

1. Modem is initialized.
2. Configuration has changed.
3. Periodically every 60 seconds after startup.

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

Geo 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 is a functionality that sets (changes) configuration bands according to 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
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

Operator connection

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