PROTOCOLS SUMMARY OF TELTONIKA DEVICES

v1.0

Instruction

A codec is a device or computer program for encoding or decoding a digital data stream or signal. A codec encodes a data stream or a signal for transmission and storage, possibly in encrypted form, and the decoder function reverses the encoding for playback or editing.

Description of every protocol supported by Teltonika devices can be found at:

https://wiki.teltonika.lt/view/Codec

AVL ID list supported by Teltonika FMB0XY, FMB1XY, FMB9XY, FMB96X, FM3001, FMT100, TMT250, FMC1XY, FMC0XY, FMUXY, FMM1XY, FMP100 devices can be found at:

https://wiki.teltonika.lt/view/FMB_AVL_ID

AVL ID list supported by Teltonika FMB640, FMC640, FMM640 device can be found at:

https://wiki.teltonika.lt/view/FMB64_AVL_ID

AVL ID list supported by Teltonika FMB630,FM63 device can be found at:

https://wiki.teltonika.lt/view/FMB63_AVL_ID

AVL ID list supported by Teltonika FM36 device can be found at:

https://wiki.teltonika.lt/view/FM36_AVL_ID

All Teltonika devices uses Codec 8, Codec 8E and Codec 12 protocol. Codec 12 protocol is used to communicate with the server and device by using GPRS commands. Codec12 protocol is also necessary for using features like: Garmin, LCD communication, COM TCP Link Mode. Codec 13 protocol is used for FMB125 device and this protocol works similar as Codec12, but provides a timestamp. Codec14 is protocol for device-server communication over GPRS messages and it is based on Codec12 protocol. Main difference of Codec14 is that, device will answer to GPRS command if device physical IMEI number matches specified IMEI number in GPRS command.Codec 16 protocol is used for FMB630, FM6300 and FM6320. The main difference between CODEC8 and CODEC16 is CODEC ID which will be 0x10 instead of 0x08, AVL ID‘s in AVL data is sent in 2 bytes, instead of 1 byte to get a higher AVL ID parameter than 255.

Table 1 Protocols summary of Teltonika devices

Device	Protocols	Protocols description link
FMB001, FMB010, FMB002, FMB020, FM3001, FMB900,	Codec 8	https://wiki.teltonika.lt/view/Codec_8
	Codec 8E	https://wiki.teltonika.lt/view/Codec#Codec_8_Extended

FMB920, FMB964, FMB962, FMB110, FMB120, FMB122, FMB125, FMB130, FMB140, FMB202, FMB204, FMB206, FMT100, TMT250, MTB100, FMP100, FMB640, FMC001, FMC125, FMC130, FMC640, FMU125, FMU130, FMM125, FMM130, FMM640	Codec 12 Codec 14	https://wiki.teltonika.lt/view/Codec_12 https://wiki.teltonika.lt/view/Codec#Codec_14
FM3612, FM36M1	Codec 8 Codec 12	https://wiki.teltonika.lt/view/Codec#Codec_16
FMB630, FM6300, FM6320	Codec 8 Codec 12 Codec 16	https://wiki.teltonika.lt/view/Codec#Codec_16
FMB125, FMB630, FMB640, FMC125, FMC640, FMU125, FMM125, FMM640, FM6300	Codec 13	https://wiki.teltonika.lt/view/Codec_13

Table 2 Change log

Version	Comment
1.0	Official document release.