

## Product Change Description



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### DECLARATION OF FMM80A-Q2IB0 AND FMM00A-Q2IB0 DIFFERENCES

22<sup>nd</sup> of May, 2023

Vilnius

TELTONIKA TELEMATICS, UAB, Saltoniskiu st. 9B-1, LT-08105, Vilnius, Lithuania, hereby declares that FMM80A-Q2IB0 and FMM00A-Q2IB0 products use the same PCB, same module, just CAN chip (U3100 and subcomponents) for reading data from OBD is removed. RF performance is not affected. FMM80A-Q2IB0 and FMM00A-Q2IB0 support the same bands. The differences between models FMM80A-Q2IB0 and FMM00A-Q2IB0:

	FMM80A-Q2IB0	FMM00A-Q2IB0
C3510	/	2.2uF 6.3V 20% X5R 0402
C3107, C3502, C3503	/	4.7uF 6.3V 20% X5R 0402
C3300	/	1uF 10V 10% X5R 0402
C3101, C3102, C3103, C3106, C3108, C3200, C3202, C3501, C3507	/	100nF 16V 10% X7R 0402
C3511	/	33pF 50V 5% COG 0402
C3100, C3505, C3509	/	10uF 6.3V 20% X5R 0603
C3104, C3105, C3201, C3506, C3508	/	27pF 50V 5% COG 0402
C3109	/	1nF 50V 10% X7R 0402
D3100	/	TVS Diode Bidirectional Urwm=3.3V 2.6pF@1MHz 2-UDFN (1x0.6mm)
R3104, R3105, R3106, R3107, R3111, R3112, R3202	/	0R 0402 1/16W Jumper
R3119, R3315, R3412, R3413, R3414, R3424, R3500	/	110K 1% 0402 1/16W 100ppm
R3102, R3309, R3401, R3405, R3408, R3421, R3422	/	1.1K 1% 0402 1/16W 100ppm
R3109, R3305, R3307, R3308, R3310, R3312, R3313, R3316, R3400, R3404, R3406, R3407, R3409	/	10K 1% 0402 1/16W 100ppm
R3108	/	330K 1% 0402 1/16W 100ppm
R3317	/	3.3K 1% 0402 1/16W 100ppm
R3123	/	47K 1% 0402 1/16W 100ppm
R3410, R3423	/	22R 1% 0402 1/16W 100ppm
U3500	/	IC REG LDO 3.1V 0.3A 4DFN -40+85

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C3203, C3204, C3400, C3402	/	470pF 50V 10% X7R 0402
C3301, C3303, C3500, C3504	/	1uF 50V 10% X7R 0805
D3300, D3303	/	Diode Schottky Rectifier 30V 0.5A 0.43V@0.5A SOD882
D3301, D3302, D3304, D3400	/	TVS Diode Asymmetrical Urwm1=15V Urwm2=24V 13pF@1MHz Ipp=3A Ppp=160W SOD323
D3305	/	Fast switching Diode 100V 0.215A 1.25V@0.15A 4ns SOD882
D3500	/	Diode Zener 18Vnom 5% 0.5W SOD123
L3100	/	Ferrite bead 1.5kohm@100MHz 0.3A 0.6R 0603 -55+125
L3500	/	Ferrite bead 220ohm@100MHz 2A 0.09R 0603 -55+125
Q3100, Q3102, Q3300, Q3501	/	N-chan. Small Signal MOSFET 100Vds 20Vgs Vgs(th)=2.6V 0.17A Rds=6ohm@10V SOT23
Q3301, Q3401, Q3403, Q3408	/	NPN Small Signal Transistor 45Vceo 0.1A hFE=420 SOT23-3
Q3302	/	Dual N+P-chan. Small Signal MOSFET 20Vds 8Vgs 0.7A Rds=0.15ohm@4.5V SOT363
Q3400	/	PNP Small Signal Transistor 45Vceo 0.5A hFE=250 SOT23-3
Q3402, Q3407	/	NPN Small Signal Transistor 65Vceo 0.1A DFN1006B-3
Q3500, Q3502	/	P-chan. Power MOSFET 60Vds 20Vgs 1.9A Rds=0.24ohm@4.5V SOT23-3
R31	<u>5.76K 1% 0402 1/16W 100ppm</u>	12.1K 1% 0402 1/16W 100ppm
R3115, R3116	/	470R 1% 0402 1/16W 100ppm
R3122, R3200, R3201	/	100R 1% 0402 1/16W 100ppm
R3300	/	240R 1% 0402 1/16W 100ppm
R3301	/	51K 1% 0402 1/16W 100ppm
R3302	/	8.2K 1% 0402 1/16W 100ppm
R3303	/	866R 1% 0402 1/16W 100ppm
R3304	/	374R 1% 0402 1/10W 100ppm
R3306	/	100R 5% 1206 1/4W 100ppm
R3311, R3501	/	1.5K 1% 0402 1/16W 100ppm
R3314,	/	2.2K 1% 0402 1/16W 100ppm
R4104	<u>2.74K 1% 0402 1/16W 100ppm</u>	2.2K 1% 0402 1/16W 100ppm
R3318, R4105	/	13K 1% 0402 1/16W 100ppm

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R3402, R3403, R3417, R3418	/	1.1K 5% 1206 1/4W 100ppm
R4106	/	12K 1% 0402 1/16W 100ppm
U3100	/	32 Bit ARM based CORTEX Microcontroller 48MHz 128KB Flash 16KB SRAM 48LQFP - 40+85
U3200	/	High Speed CAN Transceiver up to 1Mbaud 3.3V for 12V and 24V systems SO8 -40+125
U3300	/	LM317LM Positive ADJ Regulator 1.2-37V 50- 200mAmax SO8 -40+125
U3301	/	Quad LP Comparator Ucc=(2-32)V@2.5mA TSSOP14 -40+105
U3501	/	Switched Capacitor 5-V Boost Converter Uin=2.7...5V Iout=300mA Uout=5V SOT23-6L -30+85
X3100	/	8.000 MHz Quartz Crystal SMD ±30ppm CL=16pF 5.0x3.2mm -40+85

The mentioned components are removed or replaced due to a lack of CAN functionality.

Head of Testing Department

Julius Tervydis

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