PRODUCT SPECIFICATION AND MANUAL

2014.03

BUYER / PROJECT	SYMC / X100 / MT-SKM-05
BUYER MODEL	Unit Ass'y Smart Key Module
COMPANY	Mototech Co,.
MAKER/NATION	Mototech Co,./Republic of Korea
DRAFT PART	Research Center
DRAFTER	K.H CHO

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1. Summary

Type	Wireless controller and wireless electronic equipment of specific low output radio station
Name	Unit ASS'Y Smart Key Module
Use	Using a user authentication device, the frequency of 133.33kHz.
Summary	1. SKM (Smart Key Module) is transmitted data to FOB (Transmitter) by Low Frequency. (Passive Entry & Passive Start) 2. This Equip & FOB communicate encryption algorithm mutually for User Authentication. 3. This equipment uses semiconductors and integrated circuits that are designed to have a high reliability.
Composition	1. LF Antenna Controller 2. LF Antenna

2. ELECTRONIC SPEC.

List	Unit ASS'Y Smart Key Module
Rated Voltage	DC 12.0V
Operating Voltage Range	DC 6.0V ~ 16.0V
Operating Temp. Range	-30℃ ~ +80℃
Storage Temp. Range	-40℃ ~ +85℃
Output Frequency	133.33kHz

3. SPECIFICATION

Type	Wireless controller and wireless electronic equipment of specific low output radio station
Name	Unit ASS'Y Smart Key Module
Equipment List	LF Transmitter
Frequency	133.33KHz
Antenna Type	Type : Low Frequency ANTENNA
Communication Scheme	One-Way Communication
Equipment use	Transmitter certify with Smart Key built in Vehicle
Operating Temp.	-30℃ ~ +80℃

4. CIRCUIT EXPLAIN

1. If pressing outside Trigger Switch or Start Switch , MCU(U1) control High-Side Controller(U26) and then supply power to LF Antenna Controller(U5,U6,U7,U9,U22,U23)

2. If MCU(U1) send serial data and wake-up pattern to LF Antenna Controller(U5,U6,U7,U9,U22,U23), The amplified signal is sent to external LF Antenna by LF Antenna Controller(U5,U6,U7U9,U22,U23).

FCC (Federal Communications Commission)

WARNING: This equipment may generate or use radio frequency energy.
Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual.
The user could lose the authority to operate this equipment if an unauthorized change or modification is made.
This device complies with Part 15 of the FCC`s Rules. Operation is subject to the following two
Conditions:
1. This device may not cause harmful interference, and
2. This device must accept ant interference received, including interference that may cause undesirable operation