Wireless Sensor Data Acquisition Box

MSE32IM



MSE32IM is a sensor data collection box based on EFR32FG series SoC developed and produced by Geniatech. It can support the wireless M-Bus protocol, and also supports the expansion of other mainstream wireless protocols, such as: Z-Wave, ZigBee3.0, BLE5.0, LTE cat1, etc.; it is also compatible with traditional wired protocols, such as M-Bus to choose from. It is an ideal choice for wired meter reading, wireless meter reading, and sensor protocol forwarding solutions.

- Multi-protocol processor
 - Proprietary Protocols
 Wireless M-Bus
 - Selected IEEE 802.15.4g SUN-FSK PHYs
 - Low Power Wide Area Networks
- Balance of consumption and performance
 Provides industry-leading energy
 efficiency,ultra-fast wakeup times
 - **Configuration and compatibility**
- Pin-compatible across EFR32FG families
 Up to 256 kB of flash and 32 kB of RAM
- Customizable

Customizable hardware interface functions board functions.
Structure of the custom.

- Software and hardware encryption
 - General Purpose CRC
 - Random Number Generator
 - Hardware Cryptographic Acceleration
- Scalability

Support:Z-Wave,ZigBee3.0,BLE5.0,LTE cat1 Support:RS232/485,M-Bus,IIC,PWM,GPIO

- application
- Smart metering Sensor data forwarding
- Tracking systemCommercial and retail lightingElectronic shelf label
- **Enterprise service**

Provide comprehensive quality assurance, technical support and mass production services





Product Specification

Processor	32-bit ARM® Cortex®-M4 core	
CPU Frequency	40MHz	
WDT	Support	
M-Bus	Support	
Wireless M-Bus	Support	
	S Mode: 868MHz Band	
	T Mode: 868MHz Band	
	C Mode: 868MHz Band	
	N Mode: 169MHz	
LTE	Support:LTE Cat1	
	IInclude:LTE-FDD/LTE-TDD/GSM	
RS-232/RS485	Support	
GPIO	Support:AIO/DIO/PWM	
I2C	Support	
Battery	Support(Support power report)	

GT-IoT(uart*1;spi*1; GPIO*1)

Support Z-Wave7 terminal equipment
Connectivity Support ZigBee3.0 terminal equipment
Support LoRa terminal equipment
Support BLE5.0

Mechanical properties		
Size (mm)	130*70*22	
Net Weight (g)	150	
Power	12V/1.5A	
Wide working range	Consumer (-40° C to 85° C Tj) Industrial (-40° C to 105° C Tj)	
RoHS and Reach compliant	Yes	