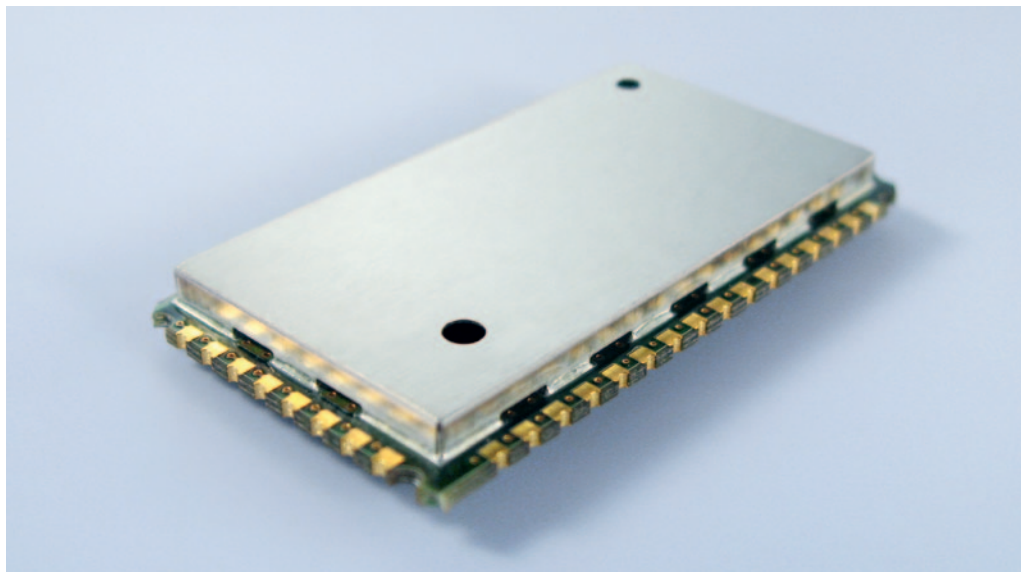











License-Free System for Frequencies <1 GHz

Embedded

TinyOne™ Plus 868MHz RF modules

38.4 Kbps - 25 mW



-  **RoHS and WEEE Compliant**
-  **Embedded S-One or M-One Stack**
-  **Ultra Low Power Consumption+Std-by Mode**
-  **DOTA - Upgradeable and Configurable Over-the-Air**
-  **Network Compatibility TinyOne™ Plus with -Pro**
-  **SMD Component**
-  **TTL RS232 Interface + Digital and Analog I/Os**
-  **2.54 mm DIP Adapter Available**
-  **SAW Filter|Best-in-Class Interference Immunity**

TinyOne™ Plus OEM RF modules are based on Telit's TinyOne™ concept in the license-free 868 MHz ISM band.

This 25 mW multi-band multi-channel radio module with advanced proprietary embedded S-ONE or M-ONE stack can be easily integrated, thus reducing development time and cost for applications in building automation, metering (water, gas, electric), irrigation, tracking, and access control.

TinyOne™ Plus is designed to be used with a battery and is compatible with the extended 500mW TinyOne™ Pro backbone network topology and is upgradeable over-the-air.

Performance

- Range: Up to 1,500 m
- Output Power: 25mW
- Serial Data Rate: Up to 115.2 Kbps
- Radio Data Rate: 4.8 to 38.4 Kbps
- Sensitivity (BER <math>< 10^{-3}</math>): -105 dBm (at 38.4 Kbps)

Power Requirements

- Power Supply: 3 to 3.6 V
- Board Consumption at 3.6 V:
Rx: 35 mA
Tx: 80 mA
Std-by: 4 μ A

Physical Properties

- Board Format:
Rectangular 38 x 21 mm, height 4 mm
- Temperature: -40°C to +85°C

Networking

- Frequency: 868 - 870 MHz
- Channels: 8 to 52
- Modulation: GFSK
- Serial Interface: RS232 TTL

- Hayes Mode: Yes
- Transparent Mode: Yes
- ACK Mode: Yes
- Addressed Mode: Yes
- Client/Server Mode: Yes
- Repeater Mode: No
- Mesh Network: Yes
- I/O Copy: Yes
- Listen Before Talk: Yes
- Telemetry: Yes
- Download Over-the-Air: Yes

Order-No.

Please contact your Telit representative for order codes and further information.



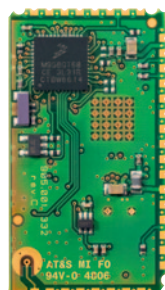
TinyOne™ Plus 868 MHz RF modules



(a)

Optional Features

- TinyOne™ Plus 868 MHz RF modules are available:
 - (a) without integrated antenna
 - (b) in DIP version



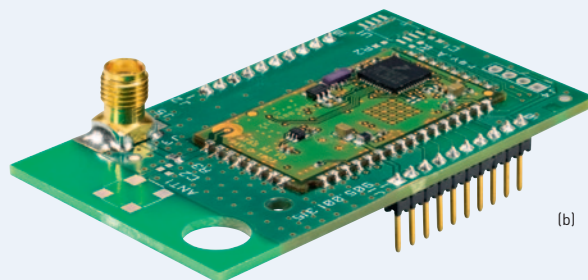
(a)

License-Free System for Frequencies <1 GHz

Compact

TinyOne™ Plus 868 MHz RF modules-Interface

38.4 Kbps - 25 mW



(b)



(a)

actual size

Demo Kit & Development Tools

Demo kits with development tools are available for testing and to assist with integration into the final application.

Call +33 (0)4 97 21 33 10 to order your demo kit



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