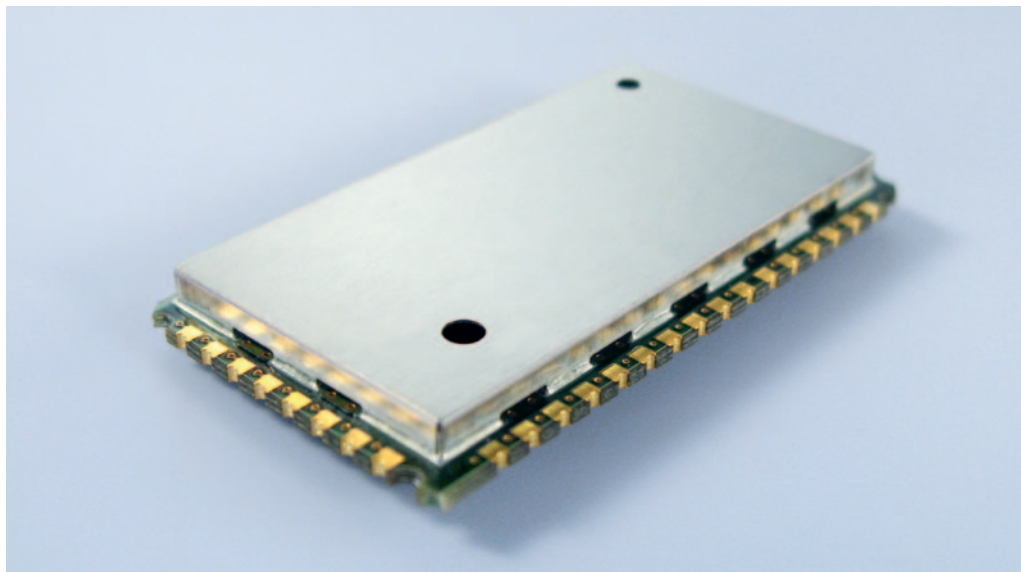












License-Free System for Frequencies <1 GHz

Embedded

TinyOne™ Pro 868 MHz RF modules

38.4 Kbps - 500 mW



-  ETSI Compliant
-  RoHS and WEEE Compliant
-  Embedded S-One or M-One Stack
-  Ultra Low Power Consumption+Std-by Mode
-  500mW for Long Range Applications
-  DOTA - Upgradeable and Configurable Over-the-Air
-  SMD Component
-  TTL RS232 Interface + Digital and Analog I/Os
-  2.54 mm DIP Adapter Available
-  SAW Filter | Best-in-Class Interference Immunity

TinyOne™ Pro OEM RF modules, based on Telit's TinyOne™ concept, are optimized for long-range solutions in the license-free ISM band of 868 MHz and operate at a temperature range of -40° C to +85° C.

These pre-certified SMD RF modules provide a TTL RS232 interface, integrated digital and analog I/O's, and advanced embedded proprietary S-One and M-One stacks.

The modules are easily integrated into applications such as energy monitoring (windmills and solar panels), weather stations, irrigation, and watering, thus reducing development time and cost while providing highly reliable communications.

Performance

- Range: 4,000 m
- Output Power: 500 mW (at 3.6 V)
- Serial Data Rate: Up to 115.2 Kbps
- Radio Data Rate: 4.8 to 38.4 Kbps
- Sensitivity (BER < 10⁻³): -105 dBm

Power Requirements

- Power Supply: 3 to 3.6 V
- Board Consumption at 3.6 V:
Rx: 35 mA
Tx: 600 mA
Std-by: 4 µA

Physical Properties

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

Networking

- Frequency: 869.4 - 869.65 MHz
- Channels: 1 or 10
- 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.

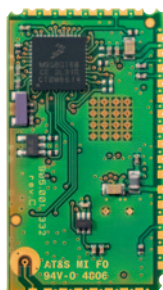
Please contact your Telit representative for order codes and further information.



TinyOne™ Pro 868 MHz RF modules



(a)



(a)



(a)

actual size

Optional Features

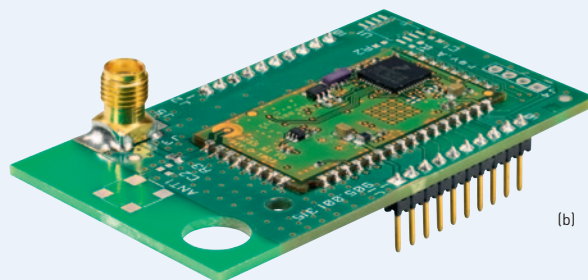
- TinyOne™ Pro 868 MHz RF modules are available:
 - (a) without integrated antenna
 - (b) in DIP version

License-Free System for Frequencies <1 GHz

Compact

TinyOne™ Pro 868 MHz RF modules-Interface

38.4 Kbps - 500 mW



(b)

Demo Kit & Development Tools

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



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