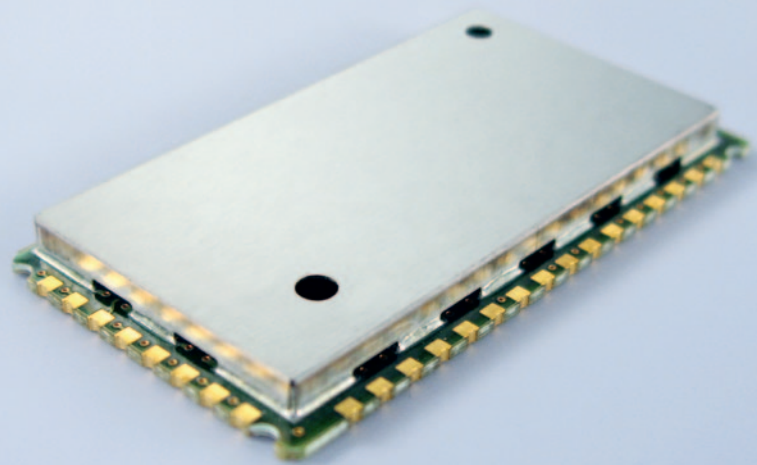












License-Free System for Frequencies <1 GHz

Embedded

TinyOne™ Lite 868MHz RF modules

100 kcps - 10 mW



	ETSI Compliant
	RoHS and WEEE Compliant
	Embedded S-One or M-One Stack
	Ultra Low Power Consumption+Std-by Mode
	Available with Integrated Antenna
	DOTA - Upgradeable and Configurable Over-the-Air
	SMD Component
	TTL RS232 Interface + Digital and Analog I/Os
	2.54 mm DIP Adapter Available
	M-Bus Compatible

TinyOne™ Lite OEM RF modules are based on Telit's TinyOne™ concept and are optimized for highly reliable communications and provide ultra-low-power for maximum battery life at a low price for applications ranging from energy management and building control to machine health monitoring.

Available with or without integrated antenna, these pre-certified SMD RF modules provide a TTL RS232 interface, integrated digital and analog I/Os, work in the license-free ISM band of 868 MHz, and offer the advanced embedded proprietary S-One stack including an optional wireless M-BUS and M-One stack.

These modules are easily integrated into a system, thus reducing development time and cost while providing highly-reliable communications and ultra-low-power for maximum battery life in a wide range of sensor network applications such as those in the growing AMR/AMI market.

Performance

- Range: Up to 700 m
- Output Power: Up to 10mW
- Serial Data Rate: Up to 115.2 Kbps
- Radio Data Rate: Up to 100 kcps
- Sensitivity (CER 10^{-3}): -105 dBm

Power Requirements

- Power Supply: 2.2 to 3.7 V
- Board Consumption at 3.3 V:
Rx: 30 mA
Tx: 40 mA
Std-by: 2 μ A

Physical Properties

- Rectangular 38 x 21 mm, height 3 mm, weight 20 g
- Temperature: -40°C to +85°C

Networking

- Frequency: 868 - 870 MHz
- Channels: 4 or 12 (Wireless M-bus)
- Modulation: GFSK
- Serial Interface:
RS232 TTL (Tx, Rx, Cts, RTS)

■ 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
■ Wireless M-Bus	Yes
■ Listen Before Talk:	Yes
■ Download Over-the-Air:	Yes

Order-No.

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

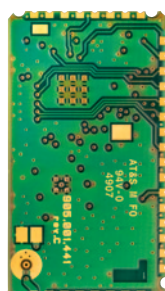


Making machines talk.®

TinyOne™ Lite 868 MHz RF modules



(a)



(a)



(a)

actual size

Optional Features

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



(b)



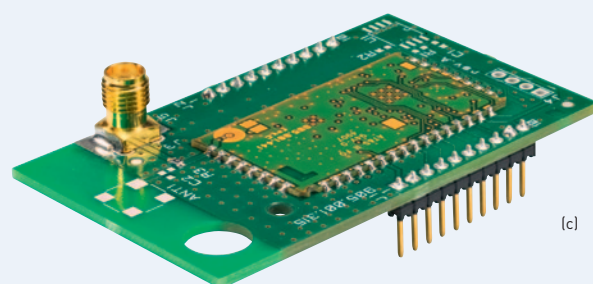
(b)

License-Free System for Frequencies <1 GHz

Compact

TinyOne™ Lite 868 MHz RF modules-Interface

100 kcps - 10 mW



(c)

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Demo Kit & Development Tools

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

