Product Overview

AX-SFAZ: RF Transceiver SoC, Sigfox™ Verified RCZ4, Ultra-low Power

For complete documentation, see the data sheet.

The AX-SFAZ is a single chip solution for a node on the Sigfox network in RCZ4 region. In the Internet of Things the domain of nation wide coverage and ultra low power consumption for smallest amounts of data can not be addressed by established standards such as GPRS or LTE. This void is now filled by Sigfox, the ultra low power cellular connectivity solution.

Add Sigfox functionality for up-link and down-link to any existing system at the cost of 20x13 mm2 PCB area. It can also be used as a single chip solution that control small sensor nodes. The AX-SFAZ device is fully programmed for immediate operation as a Sigfox node.

Features

- Ultra Low Power SoC
- 100 nA deep sleep current / 1.3 uA sleep mode
- Capability of running other sub-1G protocols such as wireless M-Bus on the same hardware
- 230 mA TX current at 24 dBm output power (full reference design with external PA)
- 34 Ma Continous RX current @922.3Mhz (full reference design)
- Ultra-low power consumption for a nationwide bi-directional network node
- Up-Link and Down-Link
- "Sigfox Verified" - Class 0u

Applications

- Industrial IoT

End Products

- Building and Home Automation
- Automatic Meter Reading
- Sensor and Asset Tracking
- Controls and Lighting

Part Electrical Specifications

Product	Pricing ($/Unit)	Compliance	Status	Data Transmission Standard	Frequency Band (MHz)	Carrier Frequency (MHz)	Package Type
AX-SFAZ-1-01-TX30	2.5595	Pb-free Halide free non AEC-Q and PPAP	Active	RF	-	920.8 Mhz 922.3 Mhz	QFN-40

For more information please contact your local sales support at www.onsemi.com.

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