

## Product Overview

### AX-SFAZ-API: RF Transceiver SoC, Sigfox™ Verified RCZ4, Ultra-low Power, with API library

For complete documentation, see the data sheet.

The AX-SFAZ-API is a single chip solution for a node on the Sigfox network. 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 mm<sup>2</sup> PCB area. It can also be used as a single chip solution that control small sensor nodes. The AX-SFAZ-API 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 RX current @922.3 Mhz (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	Compliance	Status	Data Transmission Standard	Frequency Band (MHz)	Carrier Frequency (MHz)	Package Type
AX-SFAZ-API-1-01-TX30	Pb-free	Active	RF	-	869.525 Mhz	QFN-40
	Halide free				868.13 Mhz	

For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com).

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