

Product Overview

AX-SFJK: RF Transceiver SoC, Sigfox™ Verified RCZ3&7, Ultra-low Power

For complete documentation, see the data sheet.

The AX-SFJK is a single chip solution for a node on the Sigfox network in RCZ3 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-SFJK device is fully programmed for immediate operation as a Sigfox node.

Features

- Ultra Low Power SoC with automatic Listen Before Talk (LBT)
- 100 nA deep sleep current / 1.8 uA sleep mode
- Capability of running other sub-1G protocols such as wireless M-Bus on the same hardware
- 45 mA TX current at 14 dBm output power
- 15 mA RX current @922.2Mhz
- 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-SFJK-1-01-TX30	Pb-free	Active	RF	-	923.2 Mhz	QFN-40
	Halide free				922.2 Mhz	

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

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