



Product Overview

AX-SIGFOX: Sigfox™ SoC for Up-Link and Down-Link

For complete documentation, see the data sheet

Product Description

The AX-Sigfox 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 mm² PCB area. It can also be used as a single chip solution that control small sensor nodes. The AX-Sigfox device is fully programmed for immediate operation as a Sigfox node.

Features

- Lowest Power Radio
- 950 nA sleep current
- 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
- 10 mA RX current
- Ultra-low power consumption for a nationwide bi-directional network node
- Up-Link and Down-Link
- "Sigfox Ready" Class 0 certified

Applications

- Cellular Communications

Part Electrical Specifications

Product	Compliance	Status	Data Transmission Standard	Frequency Band (MHz)	Carrier Frequency (MHz)	Package Type
AX-SFEU-1-01-TB05	Pb-free	Active	RF	868.3	869.53	QFN-40
	Halide free				868.13	
AX-SFEU-1-01-TX30	Pb-free	Active	RF	868.3	869.53	QFN-40
	Halide free				868.13	

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

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