

Product Overview

AX-SFEU: RF Transceiver SoC, Sigfox™ Verified RCZ1, Ultra-low Power'

For complete documentation, see the data sheet.

The AX-SFEU 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-SFEU 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

- Industrial IoT

End Products

- Building and Home Automation
- Automatic Meter Reading
- Sensor and Asset Tracking
- Control and lighting

Part Electrical Specifications

| Product | Pricing (\$/Unit) | Compliance | Status | Data Transmission Standard | Frequency Band (MHz) | Carrier Frequency (MHz) | Package Type |
|-------------------|-------------------|-------------|--------|----------------------------|----------------------|-------------------------|--------------|
| AX-SFEU-1-01-TX30 | 1.9594 | Pb-free | Active | RF | 868.3 | 868.13 Mhz | QFN-40 |
| | | Halide free | | | | 869.53 Mhz | |
| AX-SFEU-1-03-TX30 | 1.9197 | Pb-free | Active | | | | QFN-40 |
| | | Halide free | | | | | |

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

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