

Product Overview

AX-SIP-SFEU-API: RF Transceiver System In Package, Sigfox™ Verified RC1, Ultra-low Power

For complete documentation, see the data sheet.

AX-SIP-SFEU is an ultra-low power, ultra compact System-in-Package (SiP) solutions for a node on the Sigfox network with both up- and down-link functionality. Delivered with conformal shielding, the AX-SIP-SFEU SiP, contains all the necessary components and firmware for transmit and receive operation on the RC1 Sigfox network. No additional passive components or reference frequency providing parts are required on the customer's PCB. A single-ended 50 Ω antenna port is provided.

Features

- Sigfox™ Verified RC1 SiP with pre-regulatory approval
- System in Package with all BOM included
- Up Link and Down Link
- Ultra Low Power sleep deep-sleep and standby current
- 45 mA TX current at 14 dBm output power
- SIP38 9x7x1 with conformal shielding
- Supply range from 2.1 to 3.6 V
- Programmable 64 kBytes of Flash

Applications

- Industrial IoT

Benefits

- Out of the box ready to use connectivity for Sigfox Radio Configuration 1
- Smallest RC1 Verified solution on the market
- Supports all operating modes of Sigfox with no restriction
- Ideally suited for battery operated system
- Efficient use of Battery for Class 0 operation
- 10x smaller than PCB based RC1 modules
- Wide supply range extend product lifetime for a given battery
- Allow to port application code onto the embedded MCU. True One Chip solution

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-SIP-SFEU-API-1-01-TX30	6.354	Pb-free	Active	RF	-	869.525 Mhz	SIP-38
		Halide free				868.13 MHz	

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

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