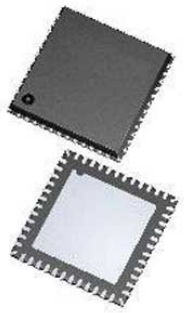
AT86RF215-ZUR

RF Transceiver 3V 48-Pin VQFN EP T/R

Manufacturer:	Microchip Technology, Inc
Package/Case:	QFN48
Product Type:	Communication & Networking ICs
RoHS:	RoHS Compliant/Lead free
Lifecycle:	Active



Images are for reference only

Inquiry

General Description

AT86RF215 is a dual-band sub-1GHz/2.4GHz transceiver compliant to IEEE 802.15.4-2011, IEEE 802.15.4g-2012, and ETSI TS 102 887-1.

The AT86RF215 offers very high flexibility by supporting a variety of data rates with three modulation schemes: multi-rate and multi-regional frequency shift keying (MR-FSK), orthogonal frequency division multiplexing (MR-OFDM), as well as offset quadrature phase-shift keying (MR-O-QPSK). This includes the physical layer which is used for ZigBee PRO and IP. Simultaneous operation at sub-1GHz and 2.4GHz enables new capabilities and cost structure in smart metering, smart lighting, home energy gateways, and other industrial and automation equipment.

Today at European Utility Week 2014, Atmel Corporation (NASDAQ: ATML), a global leader in microcontroller (MCU) and touch solutions, announced a new family of wireless transceivers. Atmel's AT86RF215, the first sampling device, is the industry's first dual-band sub-1GHz / 2.4GHz transceiver compliant to IEEE 802.15.4g-2012 and ETSI TS 102 887-1. Expanding the Atmel | SMART metering portfolio, the new devices include the AT86RF215M, a single band sub-1GHz transceiver, and the AT86RF215IQ, a dual-band I/Q radio. All three devices deliver an output power of up to 14dBm. With receiver sensitivities down to -123dBm, an outstanding link budget of 137dB can be achieved. The AT86RF215 offers superior flexibility by supporting a variety of data rates with three modulation schemes: multi-rate and multi-regional frequency shift keying (MR-FSK), orthogonal frequency division multiplexing (MR-OFDM), as well as offset quadrature phase-shift keying (MR-O-QPSK). This includes the physical layer used for ZigBee PRO and ZigBee IP. Simultaneous operation at sub-1GHz and 2.4GHz enables new capabilities and the right cost structure in smart metering, smart lighting, home energy gateways and other industrial and automation equipment. "We are excited to see the widespread adoption of standards-based connectivity solutions for the utility industry worldwide," said Kourosh Boutorabi, sr. director of smart energy products, Atmel Corporation. "Expanding our portfolio of smart metering solutions to include new wireless transceivers reinforces our commitment to serve this growing market. We are continuing to deliver new platform solutions for the smart energy market, including powerline carrier connectivity and industry s most comprehensive portfolio of metering system-on-chip solutions."

Recommended For You

AT86RF233-ZUR

Microchip Technology, Inc

QFN32

ATmega128RFA1-ZU

Microchip Technology, Inc

QFN64

AT86RF231-ZU

Microchip Technology, Inc

QFN32

AT86RF233-ZU

Microchip Technology, Inc

QFN32

ATWILC1000B-UU-T

Microchip Technology, Inc

55LWLCSP3.25x3.25

ATBTLC1000A-MU-T

Microchip Technology, Inc

QFN32

ATWINC1500B-MU-T

Microchip Technology, Inc

QFN40

AT86RF215-ZU

Microchip Technology, Inc

QFN48

AT86RF212B-ZU

Microchip Technology, Inc

QFN32

ATSAMR34J18BT-I/7JX

Microchip Technology, Inc

TFBGA

ATWILC1000B-MU-Y

Microchip Technology, Inc

QFN

AT88RF1354-ZU

Microchip Technology, Inc

VQFN6x6

ATSAMR35J18BT-I/7JX

Microchip Technology, Inc

TFBGA-64

ATWILC1000B-MU-T

Microchip Technology, Inc

QFN

ATSAMR21G17A-MU

Microchip Technology, Inc

QFN48