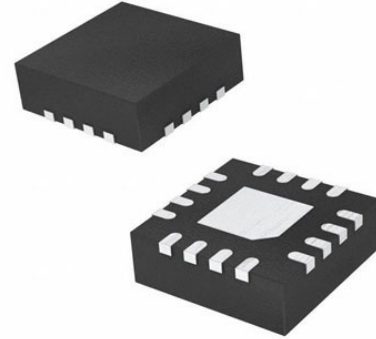


RF Transceiver ASK/FSK 3V 32-Pin QFN EP T/R

Manufacturers	Microchip Technology, Inc
Package/Case	32-VFQFN
Product Type	RF Integrated Circuits
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for ATA8510-GHQW or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

Monolithic RF Transceiver IC for the Sub-1GHz smart RF markets, providing lowest power consumption, high sensitivity and high output power. Industrial and consumer applications include RF remote control such as garage door openers, smart metering, home automation and building security systems.

The device's superior RF functionalities (e.g., blocking capabilities, power management, and more) enable an extremely low current consumption. This permits the use of smaller batteries to realize miniature designs, which is a key criteria for battery operated applications.

The RF Transceiver IC provides high sensitivity at -123dBm (0.75kbit/s, FSK, Manchester code, at 433.92MHz) and -109dBm (at 20kbit/s, ASK, Manchester code, at 433.92MHz), respectively. The high output power of -12dBm to +14.5dBm is programmable in 0.4-dB steps. Both high sensitivity and high output power allow for extended RF transmission distances.

The ATA8510 combines RF functionality with a proven Microchip AVR® microcontroller core. Configuration via the EEPROM enables quick and seamless adaptation to the individual application needs. Programming is done via the SPI - even on-the-fly during operation. The firmware is included in ROM, and the device provides additional Flash option for application-specific software needs.

Features

On-chip AVR

20k flash

EEPROM

Temp Sensor

LDO

CRC

AVR® microcontroller core with 1Kbyte SRAM and 24Kbyte RF library in firmware (ROM)

Atmel® ATA8515: No user memory — RF library in firmware only

Atmel ATA8510: 20Kbyte of user Flash

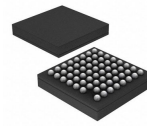
Programmable output power –12dBm to +14.5dBm (0.4dB step)

Related Products



[MRF89XAT-I/MQ](#)

Microchip Technology, Inc
QFN-32



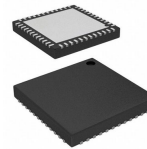
[ATSAMR34J18B-I/7JX](#)

Microchip Technology, Inc
TFBGA



[ATZB-S1-256-3-0-CR](#)

Microchip Technology, Inc
SMD



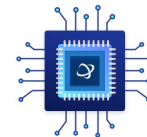
[ATSAMR21G18A-MUT](#)

Microchip Technology, Inc
VQFN-48



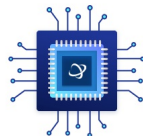
[MRF24J40MAT-I/RM](#)

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32-VFQF



[ATA8402C-6AQY-66](#)

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