io-homecontrol-Compliant RF Transceiver

ADF7022

FEATURES

Channel 2: 868.95 MHz

Channel 3: 869.85 MHz

Very low power, high performance, low IF transceiver Fully integrated io-homecontrol compliant protocol covering Layer 1, Layer 2, and time critical elements of Layer 3 Media access Master, slave, and beacon modes supported Automatic io-homecontrol channel scan Automatic CRC, preamble, start byte insertion/check UART data encoding as per io-homecontrol Smart preamble detect/packet sniffing Automatic address filtering Low power modes Autonomous packet handling without intervention of host microprocessor thus significantly increasing battery life 1-way and 2-way communication supported Automatic wake-up timer 32-bit hardware timer, 16-bit firmware timer (48 bits total) **Uses either** External 32 kHz crystal Internal 32 kHz RC oscillator Patented fast settling automatic frequency control (AFC) Fully integrated image rejection calibration (patent pending) **Digital RSSI Operating frequencies** Channel 1: 868.25 MHz

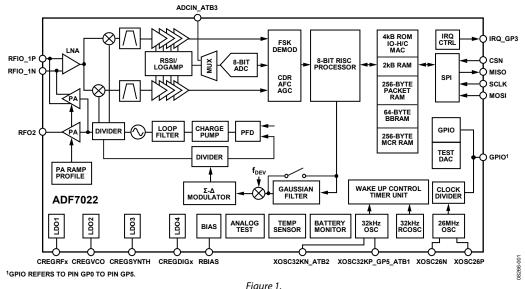
ANALOG DEVICES

> Very low power consumption 12.8 mA in receive mode with AGC active 11.9 mA in receive mode with manual AGC, ADC off 24.1 mA in transmit mode (10 dBm output) 0.75 µA in RCO wake mode 1.25 µA in XTO wake mode (32 kHz oscillator active) 38.4 µA average current in low power mode Receiver sensitivity (10⁻³ BER) –108.5 dBm at 38.4 kbps FSK, 20 kHz deviation Output power programmable up to 13.5 dBm **Automatic PA ramping Dual PAs offer Tx antenna diversity** Very few external components **Integrated PLL loop filter** Integrated Rx/Tx switch Integrated battery monitor On-chip 8-bit ADC and temperature sensor **Efficient and flexible SPI control interface** 4 lines available for low cost microcontroller interface Flexible Tx and Rx data buffers Efficient burst mode register access 1.8 V to 3.6 V power supply 5 mm × 5 mm, 32-lead LFCSP package

APPLICATIONS

Home automation Process and building control





For more information on the ADF7022, contact a local sales office at Analog Devices, Inc.

Rev. SpA

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NOTES



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