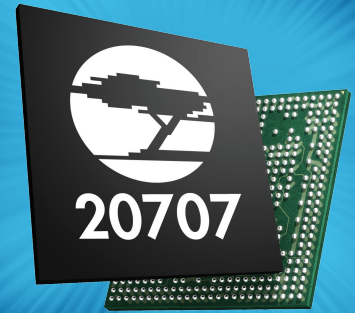


CYPRESS

CYW20707: BLUETOOTH SoC FOR EMBEDDED WIRELESS DEVICES



PRODUCT OVERVIEW

OVERVIEW

The Cypress CYW20707 is a single-chip Bluetooth 4.2-compliant, stand-alone baseband processor with an integrated 2.4 GHz transceiver. Manufactured using the industry's most advanced 40 nm CMOS low-power process, the CYW20707 employs the highest level of integration to eliminate all critical external components, thereby minimizing the device's footprint and the costs associated with implementing Bluetooth solutions.

The CYW20707 is the optimal solution for embedded and IoT applications. Built-in firmware adheres to the Bluetooth Low Energy (BLE) profile:

KEY FEATURES

- Dual mode (BR/EDR/BLE) solution
- Bluetooth 4.2 features: LE Secure connections and LE Privacy
- Power Optimization
- A2DP 1.3 Source
- AVRCP 1.4 (controller & target)

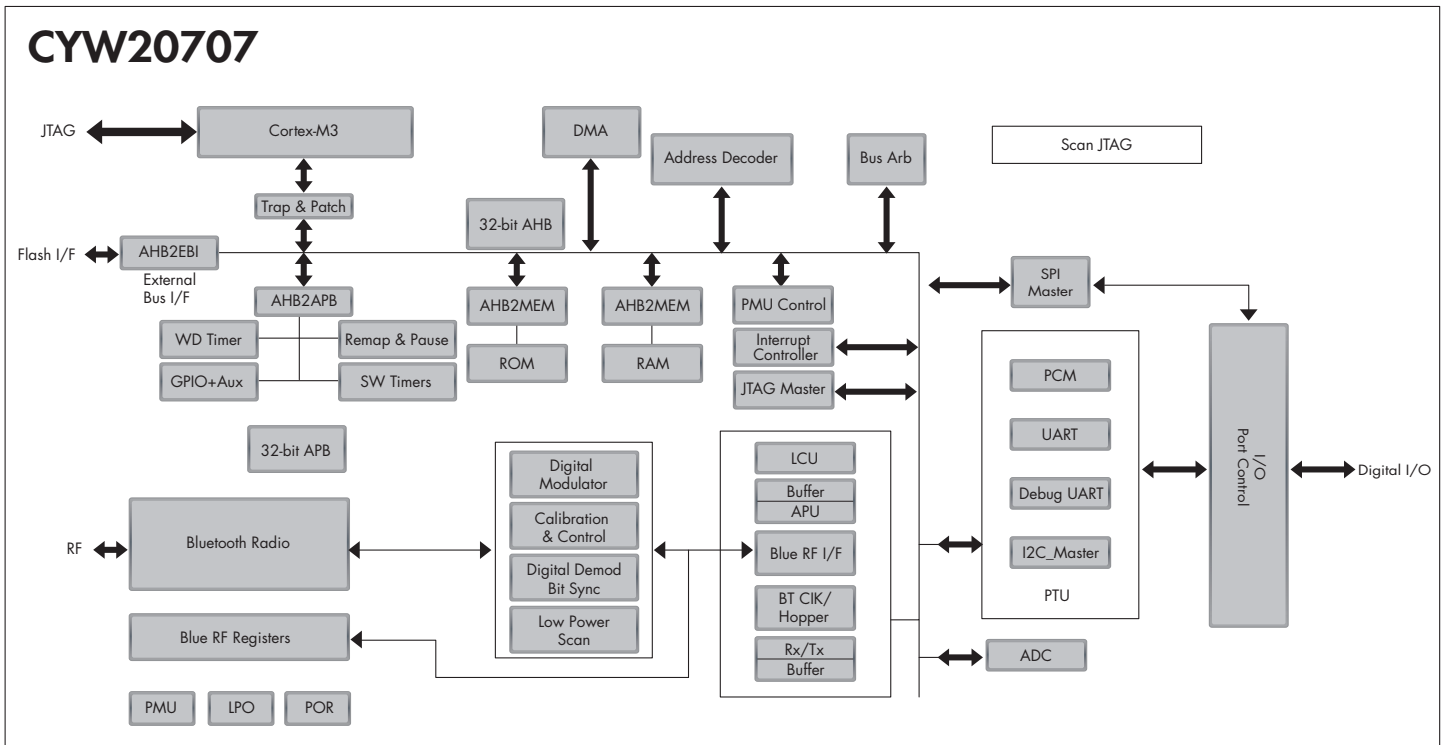
APPLICATIONS

- Home automation
- Point-of-sale input devices
- "Find me" devices
- Heart rate monitors
- Proximity sensors
- Thermometers
- Wearables

CYW20707	
✓	Mobile Phones
✓	Handheld Devices
✓	Tablets

FEATURES

- Complies with Bluetooth Core Specification version 4.2 including BR/EDR/BLE
- BLE HID profile version 1.00 compliant
- Bluetooth Device ID profile version 1.3 compliant
- Supports Generic Access Profile (GAP)
- Supports Adaptive Frequency Hopping (AFH)
- Exceptional receiver sensitivity
- Programmable output power control
- Integrated ARM® Cortex®-M3 microprocessor core
- On-chip power-on reset (POR)
- Support for EEPROM and serial flash interfaces
- Integrated low dropout regulators (LDO)
- On-chip software controlled power management unit
- PCM/I²S Interface
- Infrared modulator
- On-chip support for serial peripheral interface (master and slave modes)
- Cypress Serial Communications interface (compatible with NXP I²C slaves)



CYW20707 Functional Block Diagram

Part number	ORDERING INFORMATION
CYW20707UA2KFFB4G	49-pin FBGA, 4.5mm x 4.0mm
CYW20707UA2EKUBGT	36-pin WLPGA, 2.8mm x 2.5mm

ORDERING INFORMATION

Contact your local Cypress Representative

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