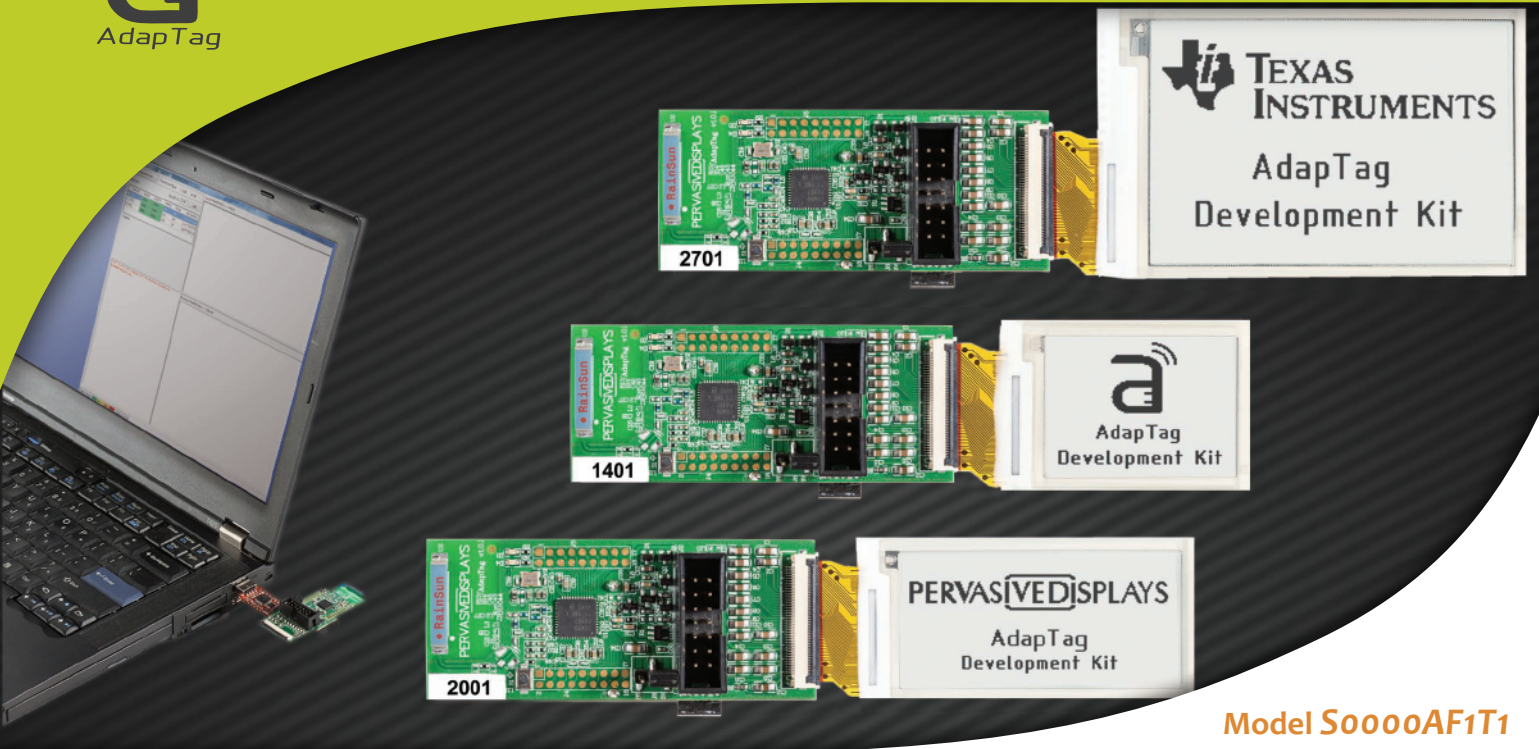




AdapTag Development Kit



Model S0000AF1T1



Texas Instruments and Pervasive Displays have joined forces to bring you the easiest way to start your own wireless e-Paper network! e-Paper is rapidly replacing traditional print paper labels and signage in businesses across the globe. With low power consumption and the ability to easily update and make changes, e-Paper is an eco-friendly way to reduce operating costs and improve production and logistic processes in industrial environments. The AdapTag development kit provides a simple, working reference design for hardware and software development on sub 1 GHz at 433MHz applications, based on the Texas Instruments CC430 RF MCU with ultra-low power active matrix electronic paper displays (EPD's) from Pervasive Displays Inc (PDI). The AdapTag board with PDI's EPD is able to operate as host or slave, and contains Advanced Low Power Star (ALPS) protocol stack, programmable firmware code and open source software that can be tailored towards many different EPD applications.

Benefits

- Starter kit to quick design RF product with active matrix e-Paper display(EPD)
- Reduced development time and shortened time to market
- Complete low power protocol reduces the RF communication design cycle
- Open reference circuits, tool source code and design documents
- Ultra low power consumption through configurable output power, flexible frame cycle and time slot of protocol

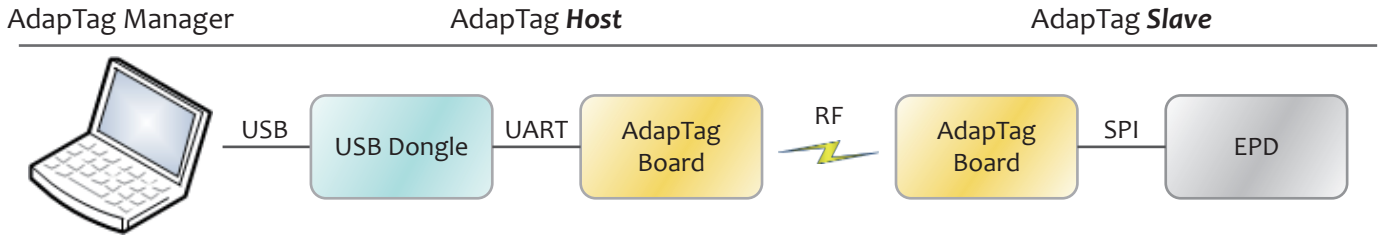
Applications

• Electronic shelf label

• Reusable transit item

• Pick-to-light

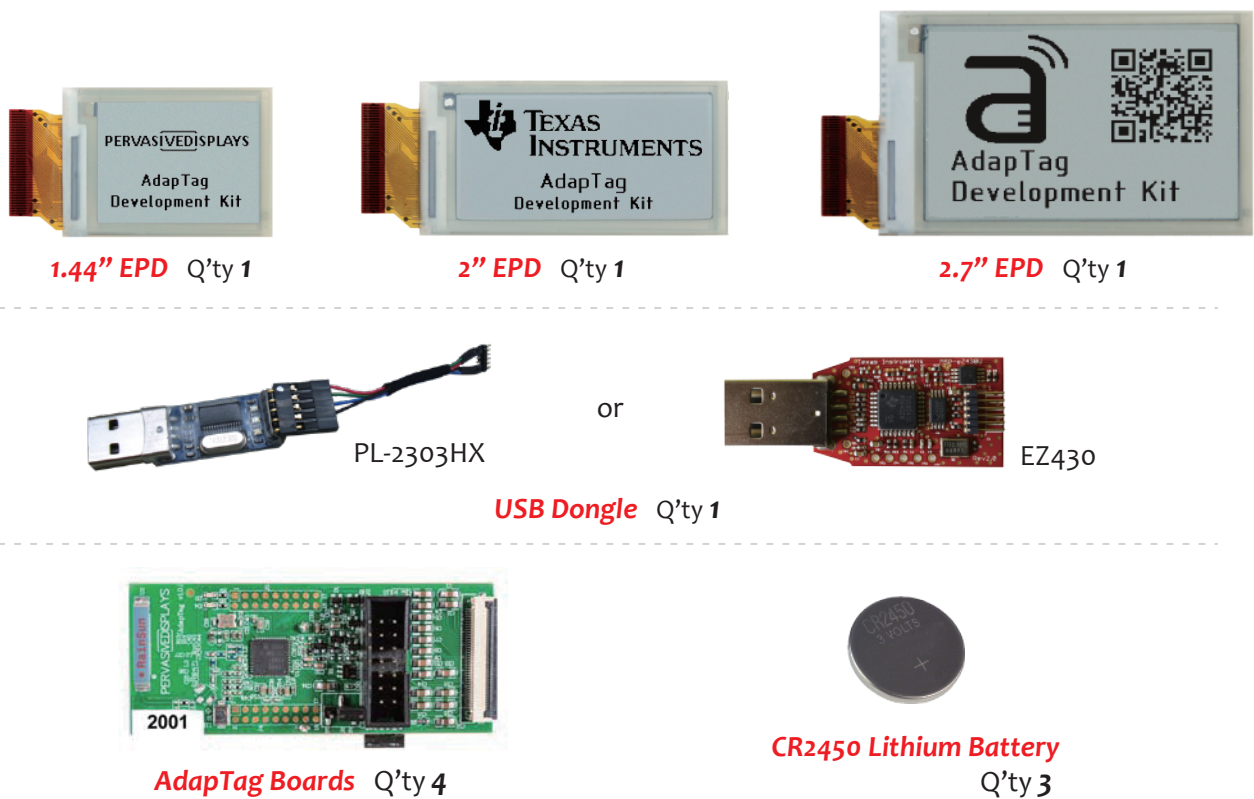
System Block Diagram



Features

- Supports 2", 1.44", and 2.7" EPDs
- MCU I/O and debug pins leaded on board for extra needs and programming
- Power source supports from Spy-Bi-Wire (USB) or CR2450 battery
- Two LEDs and one button fitted on board to facilitate status monitoring, debugging and functional needs
- Supports updating image data by USB locally or via RF wireless
- Supports MSP-FET430UIF via FET pins or other third party's device via Spy-Bi-Wire interface for programming and debugging

Kit Contents



PERVASIVE DISPLAYS

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