

Microcontrollers

Touch Solutions

Automotive

Wireless Connectivity

- Bluetooth
- 802.15.4
 - Single-Chip Solutions
- Transceivers
- ZigBit Modules

- Wi-Fi
- Smart RF
- RF Identification
- IR Control
- Cloud Partners

Smart Energy

Memory

Drivers and Sensors

Security ICs

Programmable Logic

Analog

Rad Hard

Digital Broadcast

Microcontroller Selector

Home > Products > Wireless Connectivity > 802.15.4 > Transceivers

Wireless E-Paper Display Reference Design

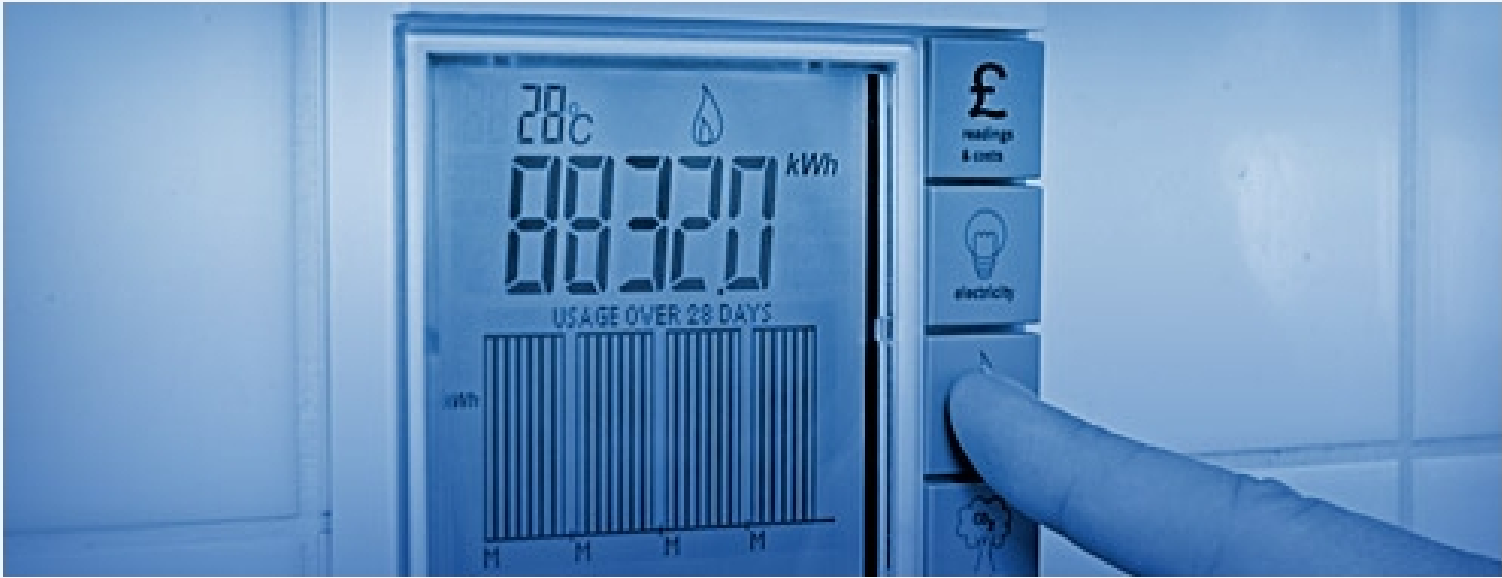
Overview

Devices

Documents

Applications

Related Tools



Get Started

We'll tell you all you need to know to start evaluating and working with this product.

- » Start Now
- » Contact Sales
- » Request Samples
- » Sign-up for News

Introduction

This reference design demonstrates a coin-cell operated wireless e-paper display solution based on Atmel® ATmega2564RFR2 (IEEE 802.15.4 compliant). Pervasive Display's e-paper consumes very little power as it can retain the image on the display even if power is removed. E-paper is easy to read due to high contrast and a 180 degree viewing angle. The design can be applied to long-life applications like medical display devices, smart tags, electronic shelf labels, barcode/QR codes, etc.

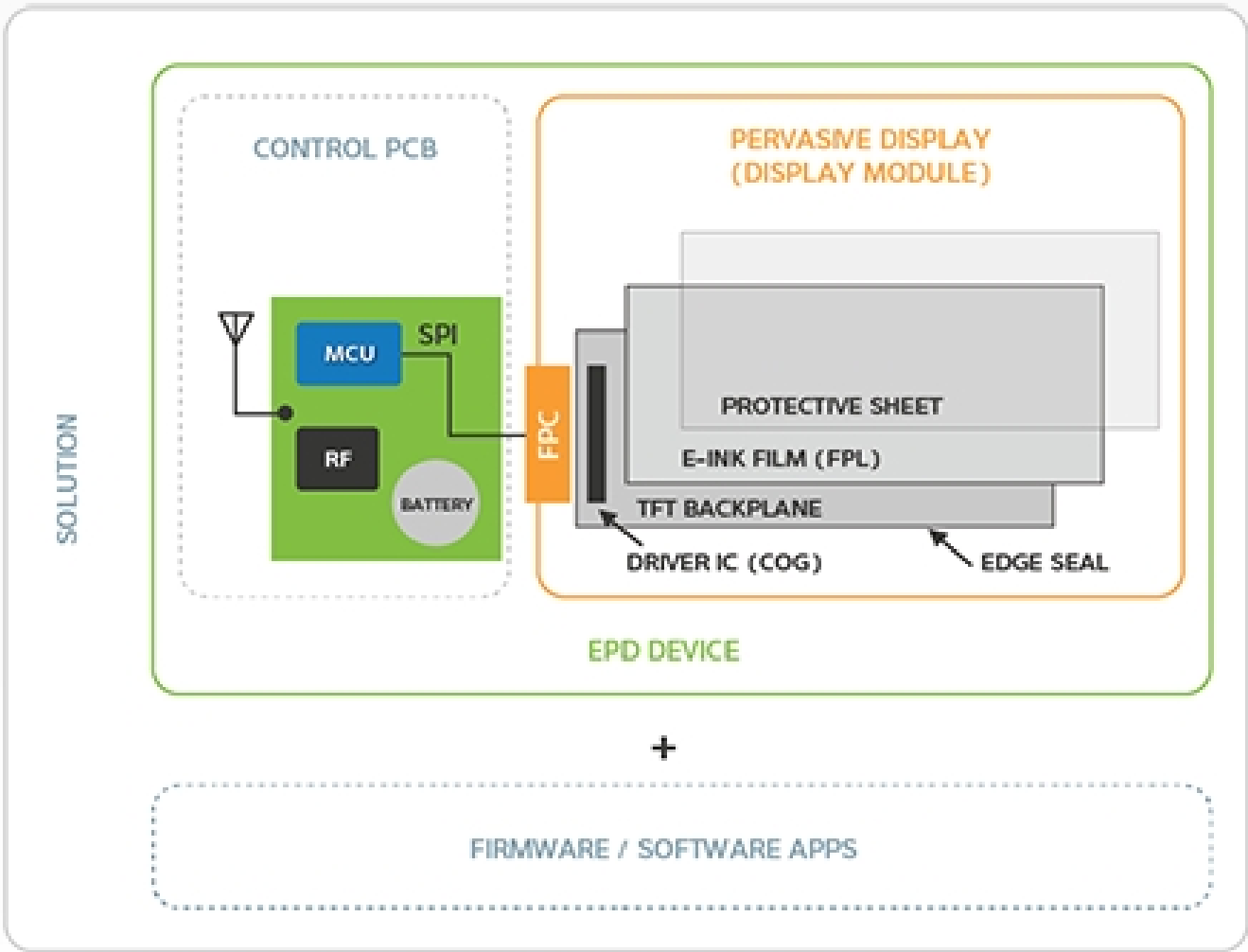
Key Features

- E-Paper display
- Chip antenna based design
- IEEE® 802.15.4 wireless connection
- Low power consumption
- Temperature sensing

Related Items

- » Communication Stacks
- » Third Party Support
- » University Program
- » More Resources
- » 802.15.4 MCUs Knowledge Base
- » 802.15.4/ZigBee Forum
- » Technical Support
- » What's Changed
- » Mature Devices

Block Diagram



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Applications

- Automotive
- Building Automation
- Home Appliances
- Home Entertainment
- Industrial Automation
- Lighting
- Internet of Things (IoT)
- Smart Energy
- Mobile Electronics
- PC Peripherals
- Wearables

Technologies

- Low Power
- High Performance
- Touch
- Wireless
- CPU Core
- Secure Technology

Design Support

- Tools and Software
- Documentation
- Training
- Communities
- Support Resources
- Third-Party Tools/Support
- Atmel Design Consultants

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