



Your Partner in Growth

Elektronika Sales Pvt Ltd

Solution support

HMI Display / Smart Zigbee Connect - Home

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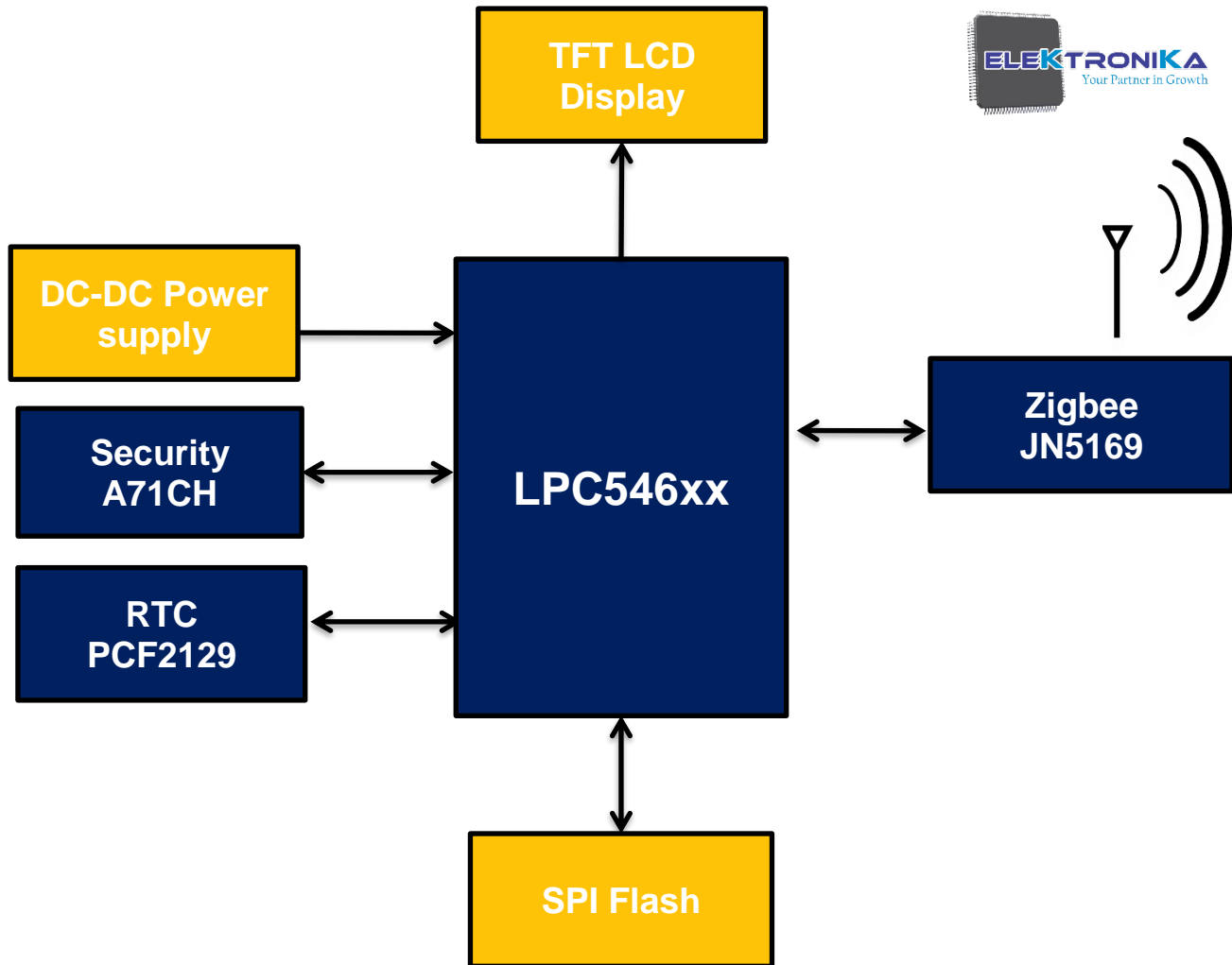
Smart Home [HMI]

Today's smart home is quickly expanding to many devices and end nodes. This requires a user interface that understands multiple wireless protocols, concurrently. Being wireless, these displays don't need to be wall powered and can be wireless charged and powered, thus making the monitoring and control of the smart home much easier.



This application pretends to display in an easy way for the user all the information collected by the sensors around the home. This application needs to support multiple protocols as Zigbee and IEEE802.15.4 to be able to share the information with all the sensors around it, also the SIGFOX protocol could be included in the features of this display.

Between the extra features that could be included in the solution are found wireless charging and secure modules to exchange information with the cloud.



LPC546xx Power-Efficient Microcontroller

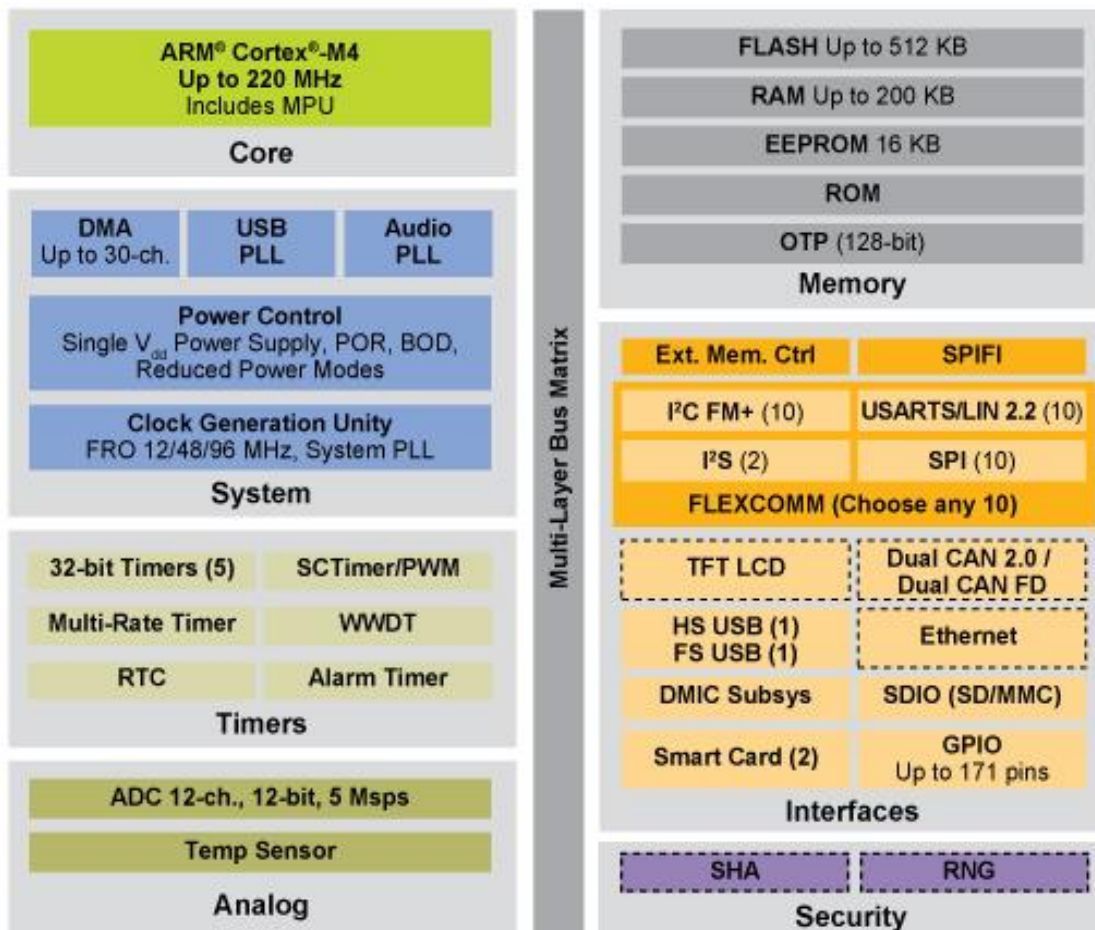
The LPC546xx MCU family combines the power efficiency of the 220 MHz Arm® Cortex®-M4 core with multiple high-speed connectivity options, advanced timers, and analog features. DSP capabilities enable LPC546xx MCU devices to support complex algorithms in data-intensive application.


JN5169: ZigBee Wireless Microcontroller

The JN5169 is an ultra low power, high performance wireless microcontroller suitable for ZigBee applications. It features 512 kB embedded Flash, 32 kB RAM and 4 kB EEPROM memory, allowing OTA upgrade capability without external memory.

LPC 546X Features

- Arm Cortex-M4 processor, running at a frequency of up to 220 MHz.
- System tick timer.
- Up to 512 KB on-chip flash program memory with flash accelerator and 256 bytes page erase and write.
- I2C-bus interfaces support Fast-mode and Fast-mode Plus USB 2.0 high-speed host/device controller with on-chip high-speed PHY.
- SPIFI with XIP feature uses up to four data lines to access off-chip SPI/DSPI/QSPI flash memory at a much higher rate than standard SPI or SSP interfaces.
- LCD Controller supporting both Super-Twisted Nematic (STN) and Thin-Film Transistor (TFT) displays.
- 12-bit ADC with 12 input channels
- Crystal oscillator with an operating range of 1 MHz to 25 MHz.

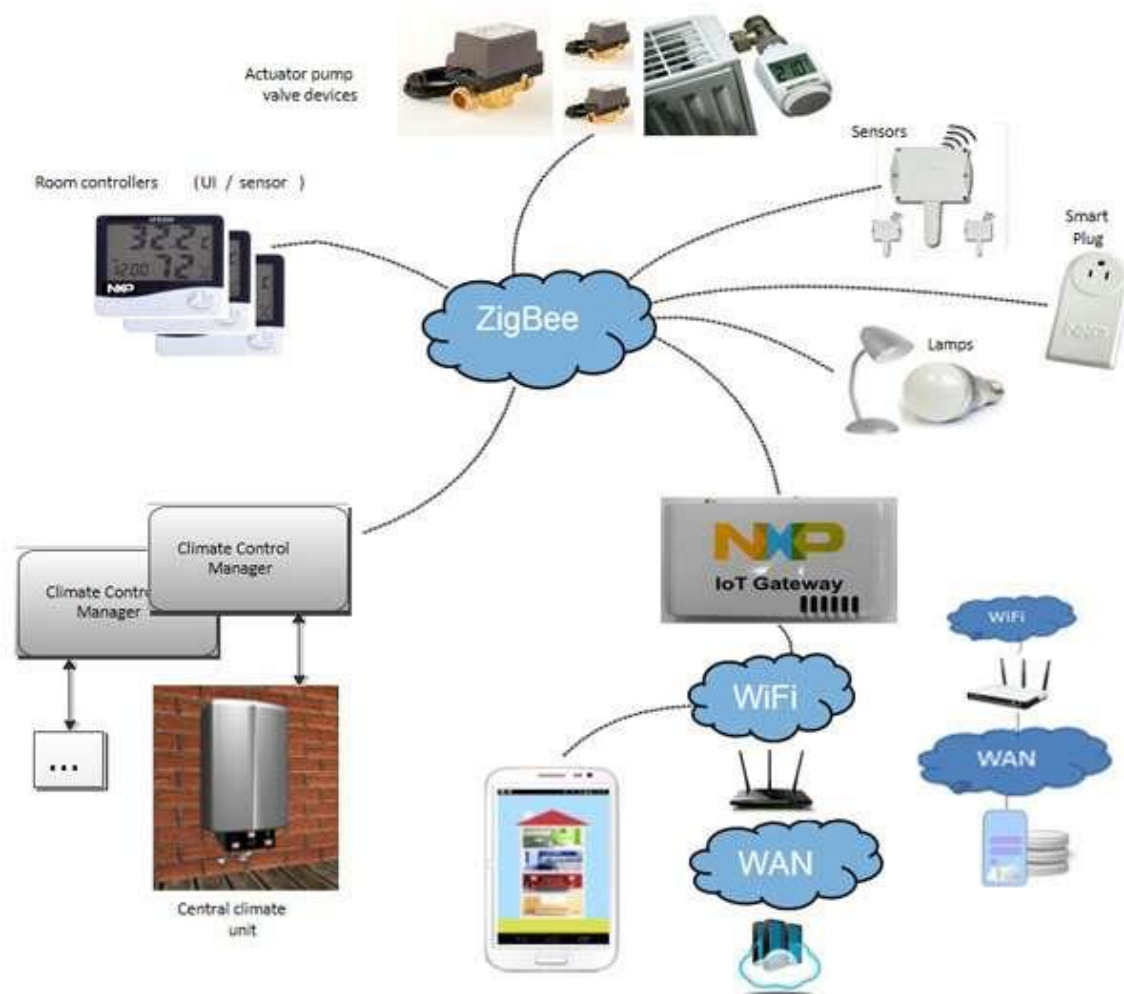


 Optional

JN5169 Features



- Single chip device to run stack and application
- Very low current solution for long battery life; over 10 years
- Very low RX current for low standby power of mains powered nodes
- Integrated power amplifier for long range and robust communication
- High tolerance to interference from other 2.4 GHz radio sources
- Supports multiple network stacks
- Highly featured 32-bit RISC CPU for high performance and low power
- Large embedded Flash memory to enable over-the-air firmware updates without external Flash memory
- System BOM is low in component count and cost
- Flexible sensor interfacing options
- Very thin quad flat 6 × 6 mm, 40 terminal package; lead-free and RoHS compliant
- Temperature range: -40 °C to +125 °C



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Our value Added Services



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SUPPORT



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Inventory



- ❖ **World class warehouse facility / VMI & Logistic program**
Key OEM - Dedicated warehouse allocation
- ❖ **Complete regional resource**
Accessibility / Flexibility Support
- ❖ **Quote center - BOM Cost Optimization service**
- ❖ **USD & INR supply chain**
- ❖ **Design solution - FAE & Product team**



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