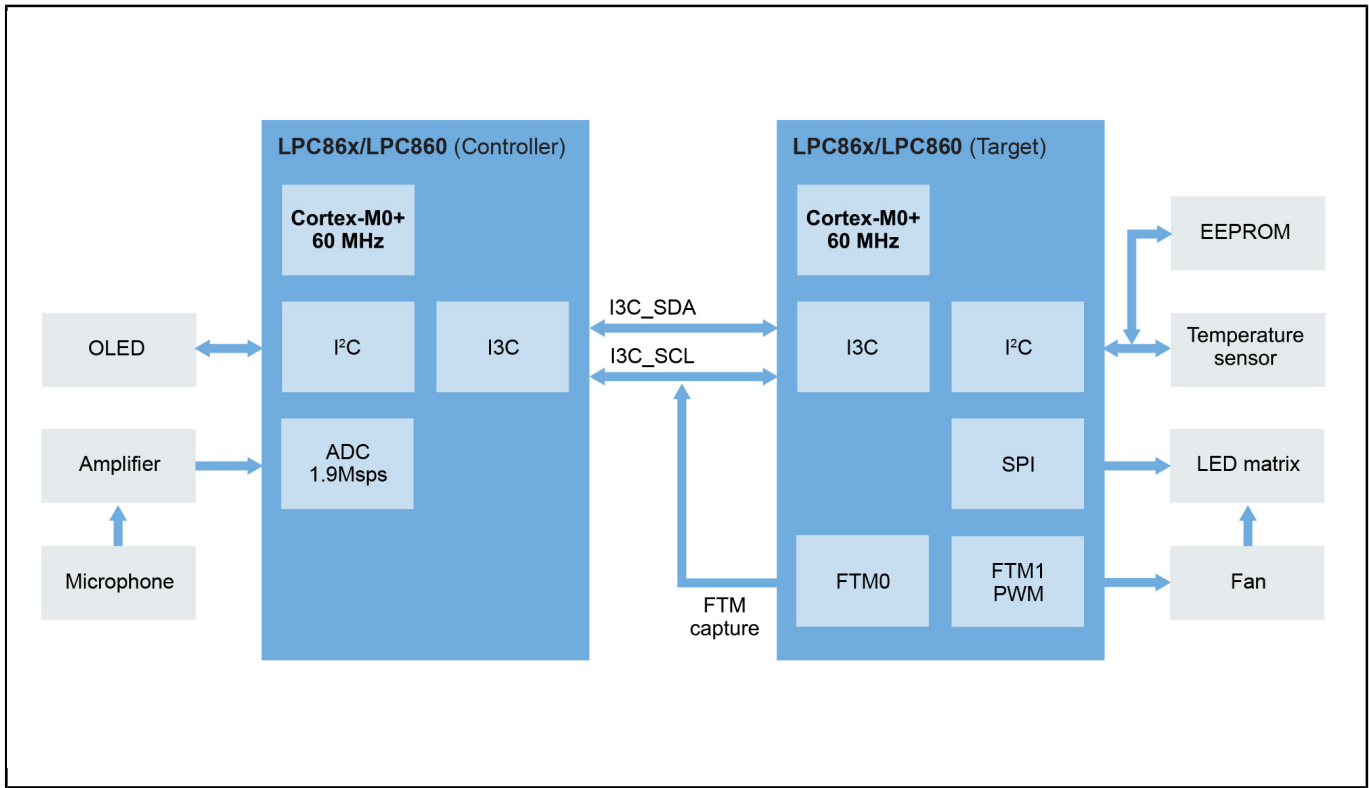# PC Accessory SDRAM Module Controller Based on LPC860 MCUs

PCA-LPC860-MCU

Last Updated: Apr 23, 2024

The SDRAM module controller reference design for PC accessory applications is based on two LPC860 MCUs, leveraging I3C interface for audio spectrum and temperature information transfer between controller and target. The controller uses FTM trigger ADC to sample the audio information and then implements FFT algorithm to get the spectrum information. After the calculation is finished, the spectrum information is transferred to the target through I3C interface, then the device will drive the led matrix to display spectrum information. At the same time, the target also detects temperature information and transfers it to the controller through the I3C.

PC Accessory SDRAM Module Controller Block Diagram

View additional information for PC Accessory SDRAM Module Controller Based on LPC860 MCUs.

Note: The information on this document is subject to change without notice.