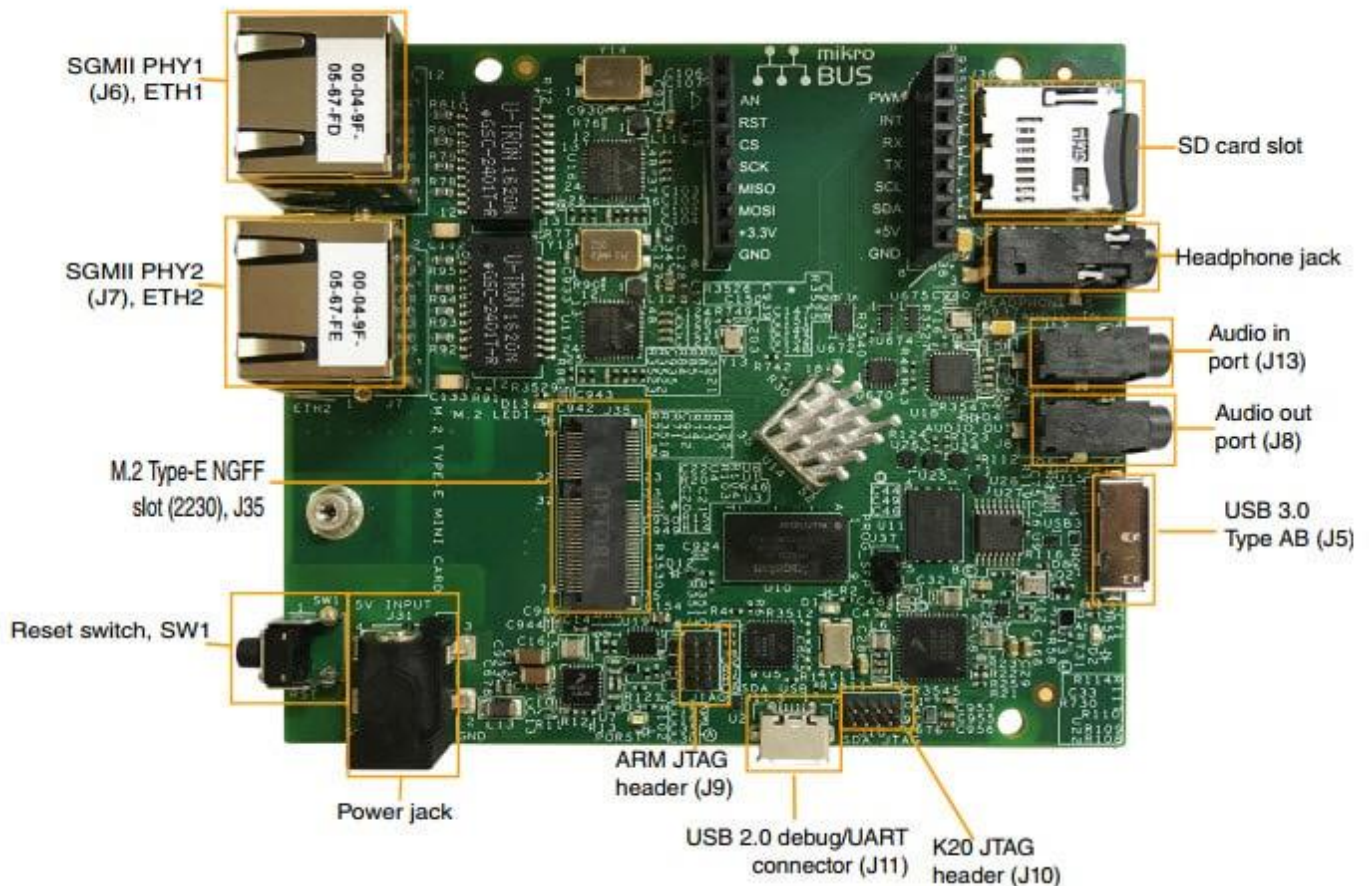


# Overview

The Layerscape® FRWY-LS1012A board is an ultra-low-cost development platform for LS1012A Series Communication Processors built on Arm®Cortex®-A53. This tool refines the FRDM-LS1012A with more features for a better hands-on experience for IoT, edge computing, and various advanced embedded applications. Features include easy access to processor I/O, low-power operation, micro SD card storage, an M2 connector, a small form factor, and expansion board options via mikroBUS™ Click Module. The MicroBUS Module provides easy expansion via hundreds of powerful modules supporting sensors, actuators, memories, and displays.

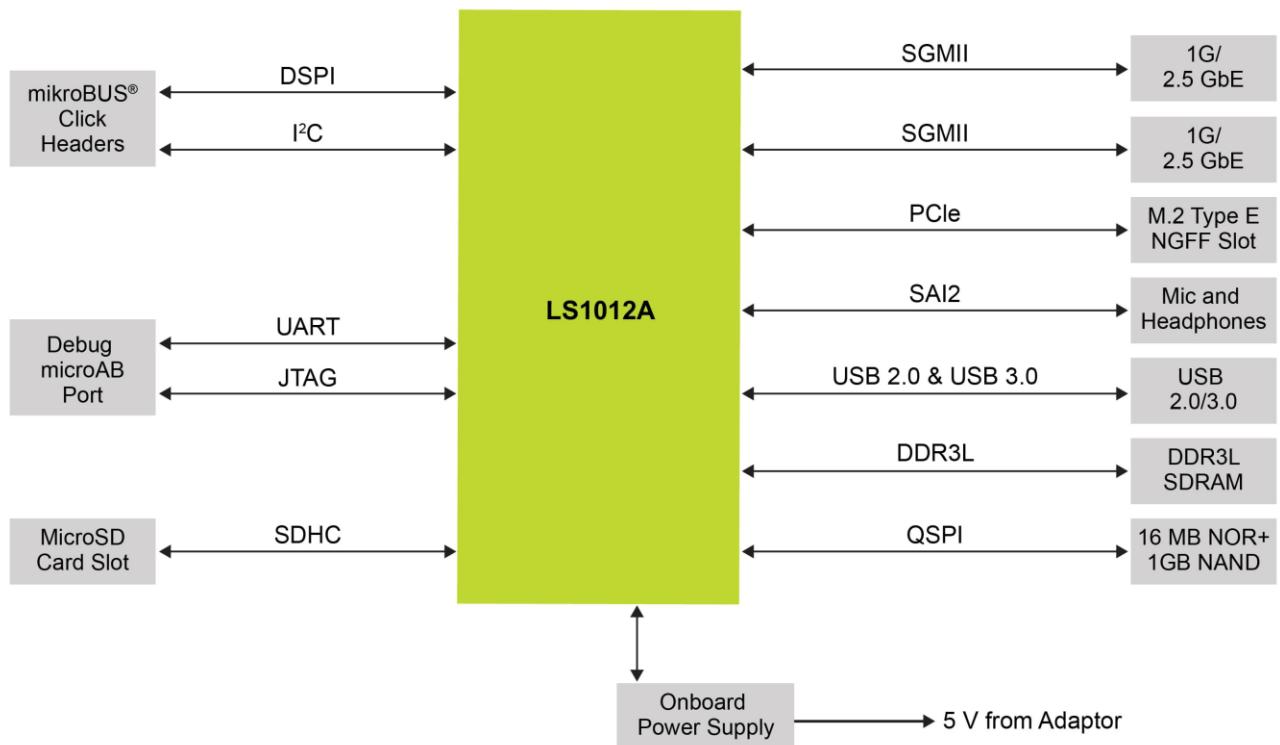
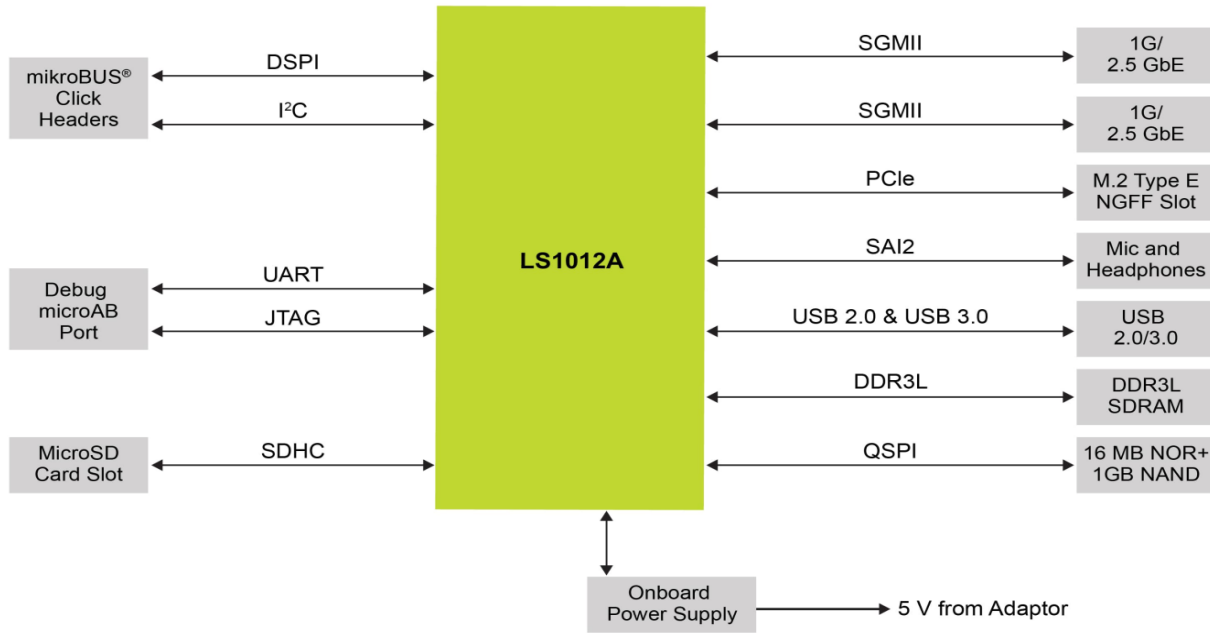
## Target Applications

1. [Personal/Consumer NAS](#)
2. [Smart Home Gateway](#)
3. [Wireless LAN \(WLAN\) Access Point](#)



# Specifications

## FRWY-LS1012A Board Block Diagram



## Technical and Functional Specifications

### Debug

Integrated JTAG Debugger, which can also be used to debug external target

### Tools & OS Support

Fully supported by LPCXpresso Eclipse-based IDE and GNU C/C++ toolchain, available in free and Pro versions  
LPCXpresso / Arm® Mbed™, PMOD, and Arduino UNO expansion connectors give simple access to a wide range of available expansion boards

### User Components

Tri-color LED  
ISP & WAKE buttons for easy testing of software functionality

## Supported Devices

### *Processors and Microcontrollers*

**QorIQ Layerscape Arm Processors**    [LS1012A](#) : QorIQ® Layerscape 1012A Low Power Communication Processor