

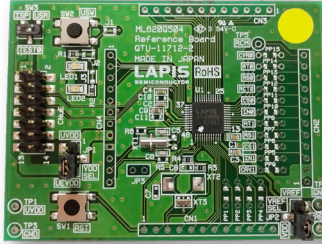
LAPIS 16-bit MCU Starter Kit Quickstart Guide: MCU16-STARTKIT-Q504

Introduction

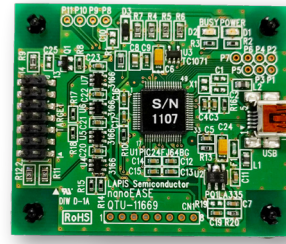
The MCU16-STARTKIT-Q504 can be used to evaluate and prototype LAPIS Semiconductor's ML620Q504 16-bit ultra-low power MCU. This document lists what is included, where to find software, and a brief startup guide.

Included Materials

- 1 dual-row, 14-pin ribbon cable
- 1 USB standard A to mini-B cable
- 1 ML620Q504 reference board
- 1 NanoEASE programmer board



ML620Q504 Reference Board



NanoEASE Programmer Board

Reference Links

LAPIS Semiconductor U16 page: Provides supplementary information about LAPIS's 16-bit MCU

<http://bit.ly/1Xmz1ex>

GitHub Documentation Reference Page: Contains supplementary information about this Starter Kit

<http://bit.ly/1QawvCn>

LAPIS Support Site* Registration and Login Page: Includes download links for software and supporting documents

<http://bit.ly/20YyEZE>

**Note: Please allow one business day for registration confirmation and access credentials*

Startup Guide

1. Install the U8 Development Tools (From the LAPIS Support Site under "Development Support System") on your PC.
2. Download the ML620Q504 reference software (From the LAPIS Support Site under "Sample Program Application Note"). Unzip and place these files anywhere on your PC.
3. Open the IDEU8 GUI environment on your PC (Installed with the U8 Development Tools from Step 1 above).
4. Go to File » Open. Then browse through the ML620Q504 Reference software for the project you want to test. (Project files use the *.pid extension.) Choose the appropriate project file and click "Open".
5. Connect hardware: PC » USB cable » NanoEASE » 14-pin ribbon cable » ML620Q504 reference board



6. Now the project has been loaded into the IDE for your customization
 - a. F7 can be used to build the project and will generate output files to be sent to the MCU
 - b. Use CTRL+F5 to build and debug the application. The DTU8 debugger will open in a different window to allow running and breakpoint debugging for the previously built code.



U.S. Design Center

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PN:MCU16-STARTKIT-Q504
March, 2016 -Revision 00