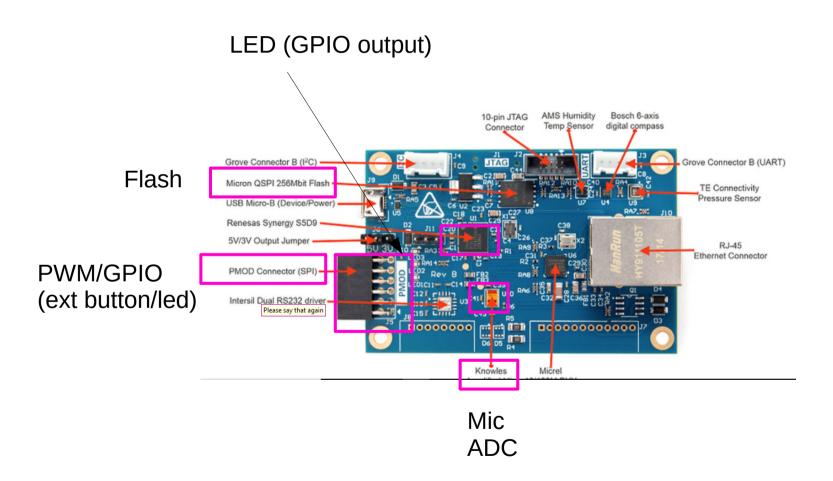
S5D9 Lab Basic Tutorials Summary
Table
By
Michael Li
(2/2/2018)
https://www.miketechuniverse.com

E2 Studio 5.4.0.023 SSP 1.3.0

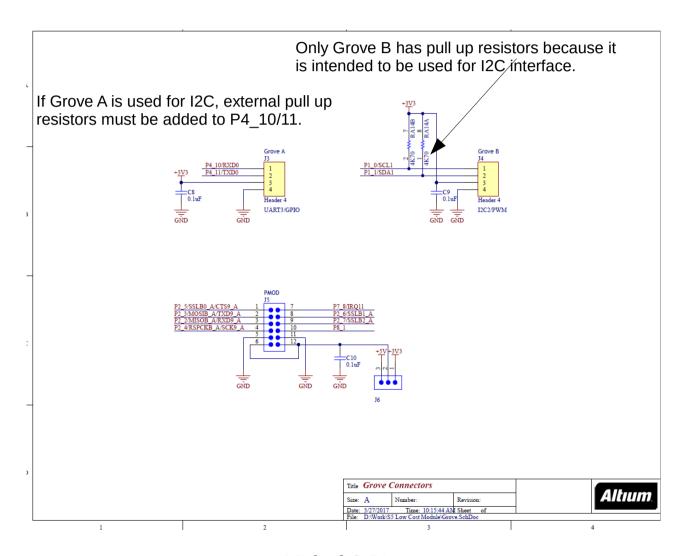
Renesas S5D9 Basic Tutorials

S5D9 Features	Component/pin	<u>Test Method</u>	<u>Project File Name</u>
Output toggle	LED1 (GPIO)	LED blink (loop delay)	S5D9 Lab LED pin write with loop delay
Timer	LED1 (GPIO)	LED blink (timer)	S5D9 Lab LED pin write with timer
Timer interrupt	LED1 (GPIO)	LED blink (timer interrupt)	S5D9 Lab LED pin write with timer interrupt
Input interrupt	Ext Button (GPIO)	Button Press detection	S5D9 Lab GPIO input offboard
PWM Timer	PMOD / Servo Motor	Motor shaft's position	S5D9 Lab PWM GPT Timer
Watch Dog Timer	LED1/2 (GPIO)	Automatic timed shutdown	S5D9 Lab WDT
QPI Flash Memory	Micron Flash Memory	Flash Memory read/write	S5D9 Lab QPI Flash Micron
ADC	Mic	Microphone input level	S5D9 Lab ADC MIC

Component and Pin Location



Schematic



Project Directories

.metadata	2/2/2018 3:29 PM	File folder
S5D9_lab_adc_mic_usbx_float	2/2/2018 3:31 PM	File folder
S5D9_lab_gpio_input	2/2/2018 3:31 PM	File folder
S5D9_lab_led_loop	2/2/2018 3:31 PM	File folder
S5D9_lab_led_timer	2/2/2018 3:31 PM	File folder
S5D9_lab_led_timer_intr	2/2/2018 3:31 PM	File folder
S5D9_lab_pwm	2/2/2018 3:32 PM	File folder
S5D9_lab_qpi_flash	2/2/2018 3:32 PM	File folder
S5D9_lab_wdt	2/2/2018 3:32 PM	File folder

Renesas Synergy Platform S5D9 IoT Fast Prototyping Kit (product page 2)

- Synergy S5D9 MCU with ARM CM4F @120MHz, 2M Flash and 640KB SDRAM
- External 256Mbits serial Nor QSPI flash for extra data and application storage
- Integrated acoustic, motion, pressure, temperature and humidity sensors
- 10/100Base-T Ethernet port for wireline connectivity to cloud
- U\$B 2.0 full speed as device and 5V power input
- Three colored LEDs (RED, GREEN, YELLOW)
- 10-pin JTAG connector for debug
- Two Grove expansion connectors (UART and I2C) for connectivity for additional sensors
- One PMOD expansion connector (SPI) for connectivity for additional peripherals AMS Humidity Bosch 6-axis 10-pin JTAG digital compass Grove Connector B (I2C) Grove Connector B (UART) Micron Q. 1 256Mbit Flash TE Connectivity Pressure Sensor USB Micro-B (Device/Power) Renesas Synergy S5D9 5V/3V Output Jumper **RJ-45** Ethernet Connector PMOD Connector (SPI) Intersil Dual RS232 driver Please say that again **0000000 II**d0000000000 (Tar)

Knowles

Micrel