Micrium OS Examples in Simplicity Studio

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Objectives

- Familiarize with the Micrium OS examples available in Simplicity Studio.

- Learn how to access the Micrium OS examples in Simplicity Studio.

How to Access Micrium OS Examples in Simplicity Studio

The process of accessing any example in Simplicity Studio is the same for all the products.

In the case of Micrium OS examples this presentation provides a list of all the Micrium OS examples classified by function and hardware.

- Select the most appropriate example from the tables listed in the last couple of slides

- Order the required hardware (Starter Kit) from https://www.silabs.com/

- Download and Install Simplicity Studio from https://www.silabs.com/products/development-tools/software/simplicity-studio

- Login from Simplicity Studio

- Plug in your Kit and install the required SDKs

- Select the Micrium OS example from the Launcher perspective in Simplicity Studio

Kernel	Net		HTTP		Wi-Fi	BLE	ZigBee	USB Device HID	USB Host MSC	Example	Description	Required Hardware	Required SDK
	DHCP	DNS	Client	Server									
√										micriumos_blink	Blinks the onboard LED	EFM32 Giant Gecko STK3700	Gecko SDK Suite MCU and Micrium OS
√								√		micriumos_usbdhidmouse	Enumerates as a USB mouse and periodically moves the pointer in your PC		
√									√	micriumos_usbhmsc	Detects a USB memory as a Mass Storage Device and displays some of the device's information		
√										micriumos_blink	Blinks the onboard LED	EFM32 Tiny Gecko STK3301A	
√										micriumos_blink	Blinks the onboard LED	EFM32 Pearl Gecko STK3401A	
√										micriumos_dynamic	Blinks the onboard LED in a Dynamic Tick configuration		
√					√					micriumos_wifi_whiteboard	Draw something on your mobile phone and watch the drawing on the board's LCD	WGM110 Wi-Fi EXP Kit	
√										micriumos_blink	Blinks the onboard LED	EFM32 Pearl Gecko PG12 STK3402A	
√										micriumos_dynamic	Blinks the onboard LED in a Dynamic Tick configuration		
√					√					micriumos_wifi_whiteboard	Draw something on your mobile phone and watch the drawing on the board's LCD	WGM110 Wi-Fi EXP Kit	
√										micriumos_blink	Blinks the onboard LED	EFM32 Giant Gecko GG11 STK3701A	
√	√	√								micriumos_net	Connects to your LAN via ETH, negotiates with your DHCP and DNS server		
√	√	√		√						micriumos_webmic	Connects to your LAN via ETH and streams audio to a browser		
√					√					micriumos_wifi_whiteboard	Draw something on your mobile phone and watch the drawing on the board's LCD	WGM110 Wi-Fi EXP Kit	
√								√		micriumos_usbdhidmouse	Enumerates as a USB mouse and periodically moves the pointer in your PC		
√									√	micriumos_usbhmsc	Detects a USB memory as a Mass Storage Device and displays some of the device's information		

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Kernel	Net			Wi-Fi	BLE	ZigBee	USB		Example	Description	Required Hardware	Required SDK
	DHCP	DNS	HTTP				Device HID	Host MSC				
√					√	√			DMP Light SOC	ZigBee Light module responsible for creating and coordinating a ZigBee network. It also connects to a BLE device (mobile app)	EFR32 Mighty Gecko Wireless SoC SLWSTK6000B	Ember Znet SDK MCU and Micrium OS
√					√	√			DMP Switch SOC	ZigBee Switch module to control the Light module		
√					√	√			DMP Light SOC with NVM3	ZigBee Light module responsible for creating and coordinating a ZigBee network. It also connects to a BLE device (mobile app)		
√					√	√			DMP Switch SOC with NVM3	ZigBee Switch module to control the Light module		
√					√				SOC Empty RAIL DMP	Basic project to run any of the protocols supported by RAIL on Micrium OS		
√					√				SOC Light RAIL DMP	Basic project that implements a Bluetooth Light on RAIL and Micrium OS		
√					√				SOC Empty RAIL DMP	Basic project to run any of the protocols supported by RAIL on Micrium OS	Blue Gecko BLE Wireless SoC SLWSTK6020B	Bluetooth SDK MCU and Micrium OS
√					√				SOC Light RAIL DMP	Basic project that implements a Bluetooth Light on RAIL and Micrium OS		
√					√				SOC Thermometer RTOS	Thermometer BLE Device capable of connecting to your mobile phone and executing other application tasks with Micrium OS		

Thank you!

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