## EFM32 Giant Gecko 11 STK

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<td>Description</td>
<td>Production release.</td>
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Boost converter for 5V displays

User LEDs

Memory LCD-TFT Display & Multiplexer

User Pushbuttons

Touch Pads

EXP Header

The EFM32 always controls ownership of the display using the EFM_DISP_ENABLE signal.
Quad SPI memory

SDIO micro

SDIO slot is connected to SDIO location #0

External memory power switch

EFM32 Giant Gecko 11 Starter Kit
Ethernet PHY

ETH RMII is connected to EFM32 Ethernet location #1

Ethernet jack
Power Select Switch: AEM/USB/BAT

AEM
AEM Enabled, VMCU sourced from external 3.3V LDO powered by BC USB 5V supply

USB
AEM Enabled, VMCU sourced from internal 3.3V LDO powered by MCU USB 5V supply

BAT
AEM Disabled, VMCU sourced from coin-cell battery or external power supply

SWITCH POS MODE DESCRIPTION

AEM Enabled, VMCU sourced from external 3.3V LDO powered by BC USB 5V supply

USB
AEM Enabled, VMCU sourced from internal 3.3V LDO powered by MCU USB 5V supply

BAT
AEM Disabled, VMCU sourced from coin-cell battery or external power supply

USB Connection and ESD protection

USB Host Power enable

Schematic Title
EFM32 Giant Gecko 11 Starter Kit

Page Title
EFM32 Power & USB

Designed
HEL

Approve
IND

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Schematic Title
EFM32 Giant Gecko 11 Starter Kit

High Frequency Clock
Low Frequency Clock
Stereo microphones

Place on board reverse side
I2C Sensor pull-ups

Relative Humidity & Temperature Sensor

Hall-effect sensor
EFM32 Giant Gecko 11 Starter Kit

Page Title

Debug Interface

Mode | DEBUG_MCU_SW_ENABLE | DEBUG_DH_SW_ENABLE | DEBUG_BUF #OE | ISOLATE #EN | DH_VTARGET | VTARGET
--- | ------------------- | ------------------- | -------------- | ----------- | ---------- | ----------
Debug Out | 0 | 1 | 0 | 0 | External voltage | External voltage
MCU Debug | 1 | 0 | 0 | 1 | VMCU | Disconnected
Debug In | 1 | 1 | 1 | 1 | VMCU | VMCU
Debug Off | 1 | 1 | 1 | 0 | - | -

Power & Decoupling

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