

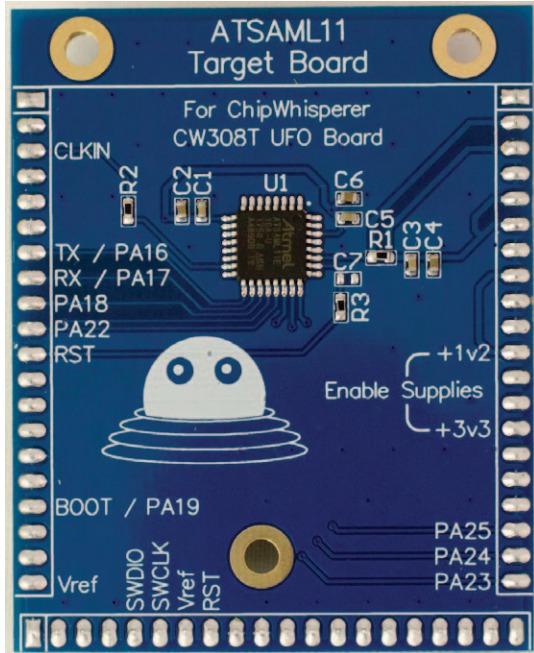


NewAE Technology Inc.  
newae.com

## ChipWhisperer® Embedded Security Analysis Tools CW308 UFO Targets

# SAML11 UFO Target

## Product Datasheet



The SAML11 board features the ATSAM11 from Microchip. This device has a Cortex-M23 core, which features many advanced security features including TrustZone-M.

This board requires an external programmer (such as Atmel ICE or OpenOCD) to be used. The example firmware will bring up the AES peripheral (which does not have DPA countermeasures) along with running other normal demos.

The design files are available as part of the open-source ChipWhisperer example targets.

**CW308 UFO Baseboard REQUIRED for use!**

**JTAG/SWD Programmer REQUIRED for use!**

## Product Highlights

Microchip ATSAM11E16A in TQFP-32 package.

JTAG port on CW308 UFO baseboard breaks out SWD pins to standard 20-pin JTAG header.

SAML11 works extremely well with voltage glitching demos using the ChipWhisperer-Lite/Pro.

Many security features including TrustZone-M, and silent access modes for FLASH and RAM can be investigated.

Full design files are available under an open-source license.

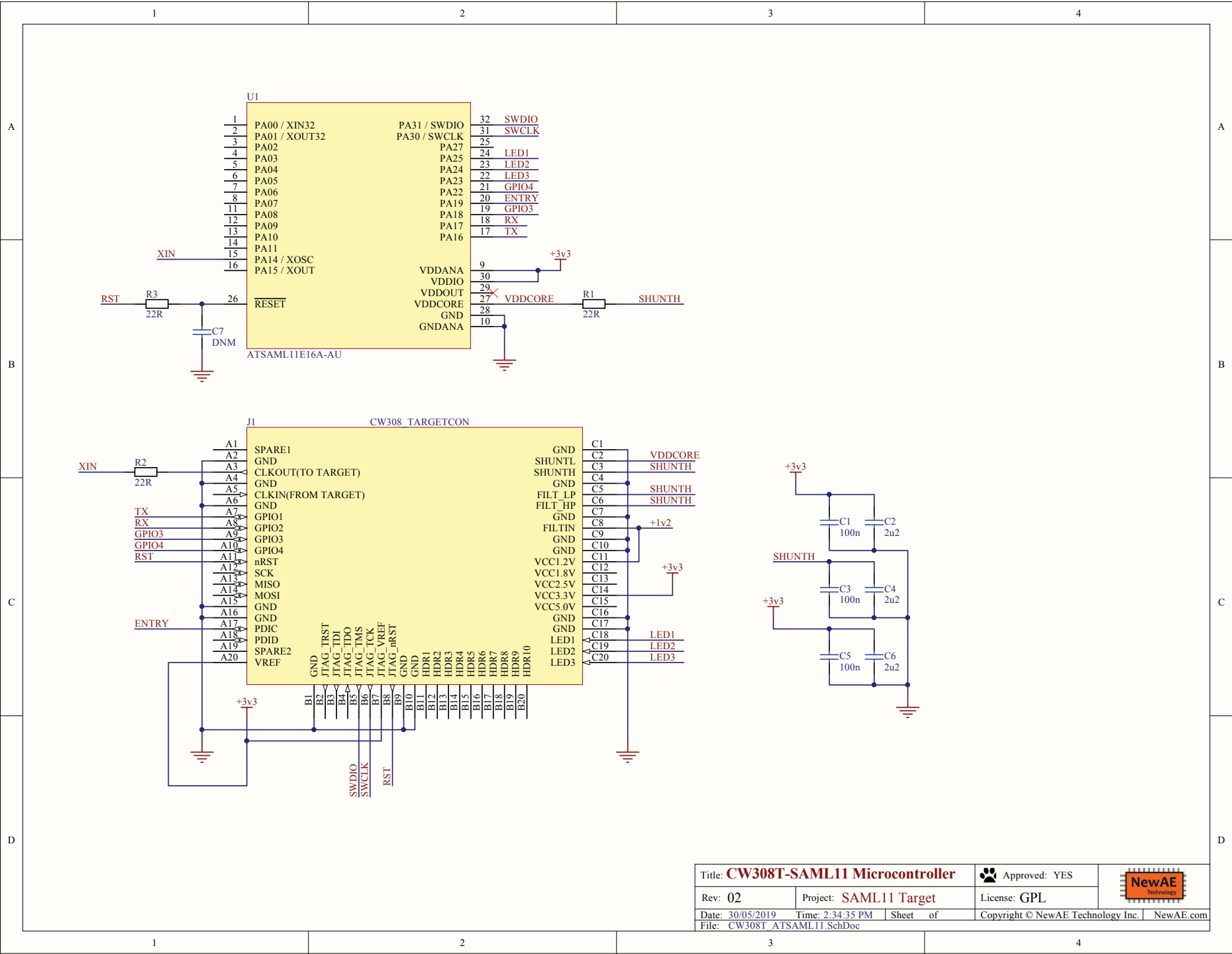
## Ordering Summary

**NAE-CW308T-ATSAML11** Microchip ATSAM11E16A UFO Target Board.

## Product Links

Full Documentation	<a href="https://wiki.newae.com/CW308T-ATSAML11">https://wiki.newae.com/CW308T-ATSAML11</a>
Hardware Design	<a href="https://github.com/newaetech/chipwhisperer-target-cw308t">https://github.com/newaetech/chipwhisperer-target-cw308t</a>
Firmware Example	<a href="https://github.com/newaetech/chipwhisperer/tree/develop/hardware/victims/firmware/">https://github.com/newaetech/chipwhisperer/tree/develop/hardware/victims/firmware/</a>

Schematic



Title: <b>CW308T-SAML11 Microcontroller</b>		Approved: YES	
Rev: <b>02</b>	Project: <b>SAML11 Target</b>	License: <b>GPL</b>	
Date: 30/05/2019	Time: 2:34:35 PM	Sheet of	Copyright © NewAE Technology Inc.   NewAE.com
File: CW308T-ATSAML11.SchDoc			



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