

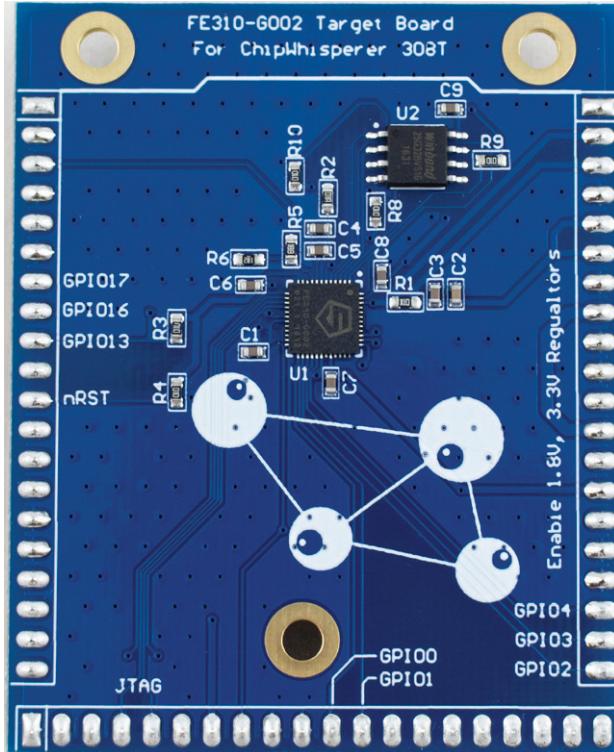


NewAE Technology Inc.
newae.com

ChipWhisperer® Embedded Security Analysis Tools CW308 UFO Targets

FE310-G002 UFO Target

Product Datasheet



The FE310-G002 UFO Target board features the SiFive FE310-G002, a small RISC-V based microcontroller. This board lets you experiment with a RISC-V device from SiFive.

This board features a SPI flash to run your code from, and is most easily programmed using a JTAG programmer (such as J-Link) that supports the FE310-G002.

A shunt resistor allows you to perform DPA measurements, or perform voltage or clock fault injection, similar to other experiments on the ChipWhisperer system.

A subset of peripherals can be exercised with the wired out GPIO pins.

CW308 UFO Baseboard REQUIRED for use!

JTAG Programmer REQUIRED for use!

Product Highlights

SiFive F310-G002 with SiFive E31 Core and 16KB SRAM.

Uses RISC-V core for testing DPA & fault injection attacks on a hardware RISC-V implementation.

SPI 32M-bit flash for program storage.

Errata

Devices may require use of adjustable regulator on CW308 board to ensure 1.8V core after shunt. If device does not start-up properly see full documentation for start-up procedure sequence.

Power cycle either CORE or 3.3V supply regulator if start-up still not occurring.

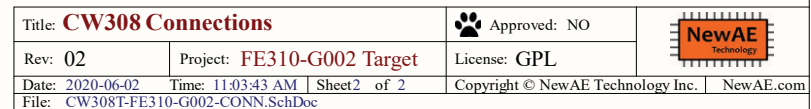
Ordering Summary

NAE-CW308T-FE310 SiFive FE310-G002 UFO Target Board.

Product Links

Full Documentation	https://wiki.newae.com/CW308T-FE310-G002
Hardware Design	https://github.com/newaetech/chipwhisperer-target-cw308t
Firmware Example	https://github.com/newaetech/chipwhisperer/tree/develop/hardware/victims/firmware/





Disclaimers

All content is Copyright NewAE Technology Inc., 2019-2020. ChipWhisperer is a trademark of NewAE Technology Inc., registered in the United States of America and Europe. ChipSHOUTER is a trademark of NewAE Technology Inc., registered in Europe. Trademarks are claimed in all jurisdictions and may be registered in other states than specified here.

NewAE Technology makes no representations or warranties with respect to the accuracy or completeness of the contents of this document and reserves the right to make changes to specifications and product descriptions at any time without notice. NewAE Technology does not make any commitment to update the information contained herein. NewAE Technology products are not intended, authorized, or warranted for use as components in applications intended to support or sustain life. NewAE Technology products are designed solely for teaching purposes.

All other product names and trademarks are the property of their respective owners, which are in no way associated or affiliated with NewAE Technology Inc. Use of these names does not imply any co-operation or endorsement.