



ZWP500™

Z-Wave Production Programmer & Test Platform

- Sigma Designs Z-Wave SoCs/Module Programmer
- FLASH & NVM Programmer
- Production Test Platform
- Firmware Validation Platform
- Programmable in Python or C
- SmartStart enabled with QRCode label printing
- Fully Customizable
- Validation Services Available

Overview

The ZWP500 is a robust and reliable programmer for the Sigma Designs 500 series of Z-Wave modules. A high-speed SPI bus interface programs the Z-Wave module in seconds. The ZWP500 is designed to operate on the factory production floor with a fanless design and push-button operation. The Raspberry Pi Linux computer is augmented with a PSoC5 microcontroller to provide the most accurate and fastest programming times possible.

A Z-Wave module with a programmable RF attenuator allows the ZWP500 to fully test the RF parameters of the target DUT. A 1ppm accurate crystal calibrates every device for optimal RF performance.

The Python API enables customizable production programming and testing. Program each NVR with a unique AES-128 Security S2 DSK pin code or other custom fields. Set the LOCK bits to prevent unauthorized access to the firmware. Have your team develop the test code or let the experts at Express Controls do it for you.

Features

- Sigma Designs 500 Series FLASH Programmer
 - Standard Sigma 12 pin programming header
 - o SPI interface for programming
 - o UART interface for debug
 - NVR and external NVM programming & test
 - 1ppm Crystal RF Calibration
 - SmartStart QRCode generation & printing
 - Fanless protective enclosure
- Production Test Platform
 - Customizable Python interface
 - Scanner interface for serial number or DSK
 - Label printer interface for DSK
 - Camera interface for LCD screen testing
- Z-Wave ZM5202 Module onboard
 - Programmable RF Attenuator with SMA
- Python API
 - Customizable Programming API or GUI
 - Sample test scripts for production testing
- Programmable Power Supply
 - +2.0V to +4.5V 300mA
 - Resolution 100uV, 100 uAmps
- Raspberry Pi based controller
 - 1.2GHz Quad ARM CPU running Linux
 - 1GB RAM - 8GB FLASH microSD
 - Ethernet, WiFi, HDMI and USB connectivity
 - Control locally or remotely via VNC

Ordering information:

- ZWP500-AU – Programmer/Tester (908Mhz US)
- ZWP500-AE – Programmer/Tester (868Mhz EU)
- ZWP500-AH – Programmer/Tester (921Mhz ANZ)
- ZWP500-DV – DevKit Interface Board
- ZWP500-SVC - ZWP500 Services & Customization