

THE QUARTERMASTER
BY CRYPTOTRONIX



QUARTERMASTER

OVERVIEW

The Quartermaster™ by Cryptotronix® is a conveniently sized secure development and manufacturing tool. It provides Original Equipment Manufacturers, Design Teams, and production facilities the capability to create, manage, and inject keying material into embedded products.



QUARTERMASTER

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CRYPTOTRONIX

Cryptotronix is a consultancy specializing in embedded device security design and development.

- Embedded Security Design and Architecture
- IoT Key Management
- Software and Firmware development for Cryptographic Hardware
- Hardware Penetration Testing and Review

P: 970-541-0968

E: hello@cryptotronix.com

Cryptotronix.com



HELLO@CRYPTOTRONIX.COM

QUARTERMASTER.DEV

SPECIFICATIONS

PHYSICAL CHARACTERISTICS:

Width: 106mm (4.2 inches)
Height: 56mm (2.2 inches)
Length: 126mm (5.0 inches)
Weight: 365g (.8lbs)
DC Voltage: 5VDC at 4.0A (max)
AC Adapter: 100-240 V, 50/60Hz @ .5A

CONTENTS:

- Pelican™ 1200 Protector Case
- Tokens for hardware role-based authentication
- AC/DC Power Supply
- Country specific IEC320 Plug
- Total power supply cord length: 3,330 mm (10.8 feet)
- PMOD cable extender

SECURITY:

- Hardware role-based access control via plug gable Tokens
- Active tamper response backed by 1 lithium small cell rechargeable battery



NO VENDOR LOCK-IN!

If you create a key you can securely export it

CONTROL INTERFACES:

- Ethernet 10/100/1000 using an Apache Thrift service API
- Serial UART via microUSB

KEY DELIVERY/ PROGRAMMING INTERFACES:

- Three Digilent™ Compatible PMOD Inter-faces (total of 16 available IO, 6 3.3V power pins, 6 GND pins)
- Ethernet

VERIFIES SECURITY LOCKDOWN OF SILICON DEBUG INTERFACES:

- JTAG

SUPPORTS POPULAR VENDOR SECURE BOOT FORMATS:

- Xilinx Zynq
- NXP IMX6.8



SUPPORTED SECURE MEMORY PROVISIONING:

- Microchip ATECC508A
- Microchip ATECC608A
- Microchip ATSHA204A

INTEGRATES INTO THE PRI- MARY EMBEDDED LINUX AND VENDOR BUILD TOOLS:

- mkimage
- Xilinx bootgen
- NXP cst
- SWUpdate
- GPG

CLOUD PROVIDER SUPPORT FOR PROOF-OF-POSSESSION AND JUST-IN-TIME REGISTRATION:

- AWS IoT
- Azure IoT