

# Quantum Shield - QS7001

## Quantum Resistant CC EAL5+ Open RISC-V platform

A powerful and versatile secure open platform with all the latest cryptographic algorithms, including quantum resistant NIST-appointed Kyber & Dilithium, to provide state-of-the-art security to a wide range of applications



### Certified

Common Criteria  
EAL 5+ Hardware



### Flexible

Load your firmware to  
power any kind of  
application



### Quantum Resistant

NIST-appointed  
algorithms



### Powerful

RISC-V 32 bit CPU

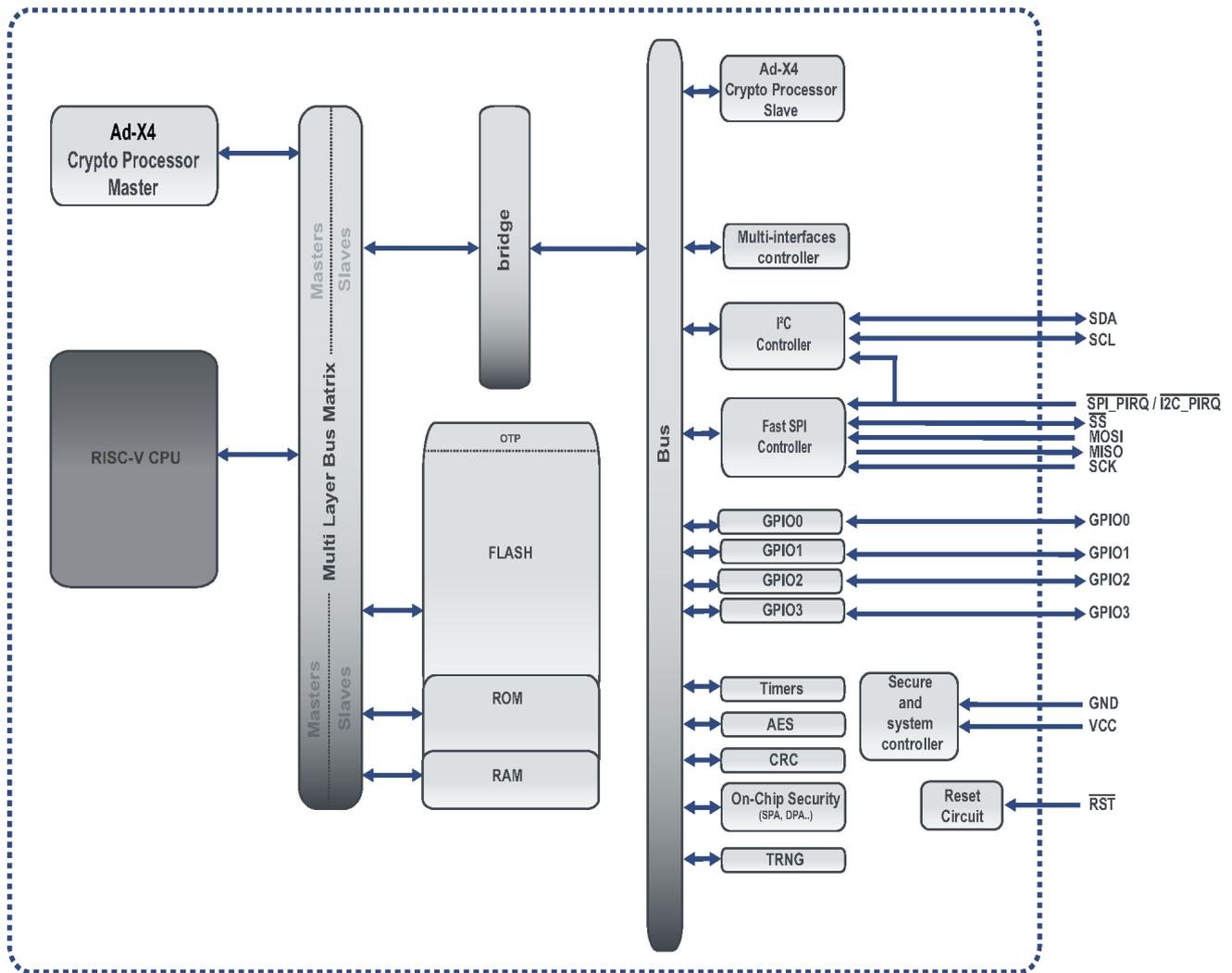


FIPS 203  
FIPS 204

NIST



## Block Diagram Quantum Shield



## Technical Features

- 80MHz 32-bit Secured RISC-V CPU
- 512KByte Flash, 80KB RAM, 4K executable RAM, 128k ROM (Crypto, Wear Leveling)
- 1Mbps I2C, 33MHz SPI (Communication Interface Auto Detect)
- 4 GPIOs
- 3 timers
- 64 bit unique Chip Serial Number
- Crypto accelerators (ECC, RSA, DH, CRC,...)
- RSA (up to 4096), ECC (256/384), AES (128/192/256), SHA2(256/384)-SHA3(256/384), NIST FIPS 203, 204
- 1.62V to 3.6V, -40°C to 105°C Operating Ranges
- QFN32 Package – TPM Compliant Pinout (I2C & SPI)