zymbit

ENGINEERING SERVICES
Embedded software & hardware
Security audits, design review
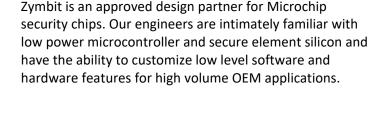Integration, manufacturing support

Secured by Design
Zymbit specializes in designing and manufacturing products that are resilient to cyberphysical attacks. We work closely with clients to assess their security needs and provide solutions and services that range from complete device design to integrations within standard security frameworks.

Key Engineering Services
- Secure embedded code development.
- Rapid prototyping and turnkey hardware solutions.
- Integration with PKI and CA frameworks.
- System security audits and design review.

SECURITY
MICROCHIP
DESIGN PARTNER

Zymbit is an approved design partner for Microchip security chips. Our engineers are intimately familiar with low power microcontroller and secure element silicon and have the ability to customize low level software and hardware features for high volume OEM applications.

CIRCUITSTUDIO

Zymbit uses Altium design tools for electronic hardware design, giving us complete design authority and the flexibility to customize existing designs or develop full custom solutions for clients.

aws partner network

Zymbit is an Amazon AWS partner, and provides products that are Hardware Security Integration qualified. We offer code examples for easy integration with AWS IoT Greengrass, and other integration services when required.

AREAS OF EXPERTISE

1 Secure Embedded Software   Realtime embedded development across a range of processor and microcontroller families:
- FreeRTOS, C, C++, Python, NodeJS
- ARM processor families
- Linux – Ubuntu, Fedora, Raspbian, Debian

2 Electronic Hardware Design   Embedded single and multi-board solutions integrating microcontrollers, analog and digital:
- Ultra-low power designs for battery operation.
- Power supply, serial, I/O, CANbus and network interfaces. Simple HMI
- Design-for-manufacture and manufacturing test design.

3 Secure Integration Services   Detailed and secure integration of embedded systems to large scale security frameworks:
- OpenSSL, PKCS11,
- CA integrations
- Integration with AWS IoT, Azure IoT, Other

4 Mechanical Design   Design of custom enclosures and fixtures for prototyping and high-volume manufacture:
- SolidWorks designs in metal, plastics and other materials.
- Rapid design and prototyping services.
- Full design-for-manufacture and transition-to-manufacture support.

SERVICES PACKAGES

Project Review & Assessment   2 Day Review and Assessment of Client's Project Requirements   US$ 5,000
- Initial checklist review of project requirements, use cases, attack vectors
- Detailed review of customer design requirements, 6 -10 hours paper review, 2 hours interview
- Written report detailing assessment and recommended actions, 1 hour debrief interview
- All activities via conference call & email. In persons services available at additional costs.

Secure Integration Services   5 Man days of expert engineering services.   US$ 10,000
- Project scope and deliverables preferably managed using agile sprint methodology
- All activities via conference call & email. In persons services available at additional costs.

Custom Design & Integration   Highly dependent upon scope and level of complexity of project   starting at   US$ 50,000
- Project scope and deliverables preferably managed using agile sprint methodology
- All activities via conference call & email. In persons services available at additional costs.

For more information, visit   **www.zymbit.com/engineering**

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