QuintessenceLabs

Cryptographic resilience for the quantum and AI era

www.quintessencelabs.com

CORE CAPABILITY

QuintessenceLabs designs, manufactures and supports cybersecurity hardware and software for government, defence and enterprise. Our solutions support **PQC readiness and crypto agility, enterprise key management, quantum random number generation, secure key distribution and defence data protection.**

PQC READINESS AND CRYPTO AGILITY

qSentry

Cryptographic asset management providing continuous visibility and risk intelligence. Maps findings to applications and integrates with enterprise automation tools to support remediation.

qCrypt

Enterprise key and policy management supporting crypto agility and centralized control across on-premises, cloud and hybrid environments.

PQC Readiness Assessment

Advisory service to assess cryptographic usage and risk, prioritize remediation and develop a PQC migration roadmap.

QUANTUM SECURITY AND DEFENCE DATA PROTECTION

qStream

1 Gbit/s quantum random number generation from a NIST SP 800-90B certified entropy source. Available in PCIe and appliance form factors.

1 Gbit/s

QUANTUM RANDOM NUMBER GENERATION

qConnect

Quantum-safe key distribution supporting classical, PQC and hybrid approaches, with QKD integration.

qOptica

Continuous-variable quantum key distribution for establishing shared encryption keys.

qProtect

Bulk and streamed data protection with virtual zeroization capabilities.

Single Information Environment (SIE)

Cryptographic compartmentalization without the need for specialized materials.

COMPETITIVE DIFFERENTIATORS

- Application mapping turns cryptographic findings into focused remediation.
- Integration with enterprise automation tools supports ongoing crypto agility.
- Vendor-neutral interfaces support existing technology environments.
- Complementary hardware and software capabilities address enterprise and defence requirements.
- Australian and U.S. support teams bring cybersecurity and engineering expertise.

CUSTOMERS AND PARTNERS

KEY CUSTOMERS

Boeing Global, Brocade, Northrup Grumman, NetDocuments, Penten, The Home Depot, Staples

Via OEM partnerships: U.S. federal agencies. Deployed across the United States, Europe, the United Kingdom, Asia and Australia.

KEY PARTNERS

Strategic: Deloitte • EY • Fujitsu • Infosys • KPMG
Commercial: Carahsoft • Certes Networks • InQTel • ST Engineering • Telus Digital
Major Suppliers: Dell • Entrust • Red Hat
Manufacturing: Rocket EMS

COMPANY

HQ: Canberra, Australia
U.S. HQ: San Jose, California
Exporting: Yes
Current as of: October 2026

Contact EMEA & India:
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CERTIFICATIONS AND COMPLIANCE

PRODUCT SECURITY

NIST SP 800-90B certified quantum entropy source | NIST SP 800-90C in progress • Common Criteria certified • CSfC KGS Approval Criteria • FIPS 140-3, Level 3 HSM root of trust

REGULATORY AND MANUFACTURING

RCM compliance • Radiocommunications (Electromagnetic Compatibility) Standard 2017 • AS/NZS CISPR 32:2015 CE • RoHS compliance • FCC CFR 47, Part 15, Subpart B • ICES-003, Issue 6 • ANSI C63.4-2014 • EN 55035:2017 • Manufactured in an AS9100D / ISO 9001:2015 certified facility