Fortanix Runtime Encryption Appliance
FX2200 Series I

Fortanix®
The Runtime Encryption® Company

Designed to deliver secure Key Management,
Hardware Security Module and Cryptography services

Fortanix Runtime Encryption Appliance FX2200 Series I node is the ideal building block for implementing Fortanix Data Security Manager in a private cloud or as a managed service.

With Fortanix Data Security Manager, you can securely generate, store, and use cryptographic keys and certificates, as well as secrets, such as passwords, API keys, tokens, or any blob of data. Built from the ground up for modern cloud applications, Fortanix Data Security Manager provides REST APIs alongside traditional interfaces, native server-side clustering, centralized management, secure audit logs, and more!

HSM-grade Security with Software-defined Simplicity

- Integrated HSM, key management, plug-in and tokenization
- Secured with Intel® SGX to ensure that only authorized user has access to your keys and data
- Based on x86 server hardware with software-defined simplicity and economics
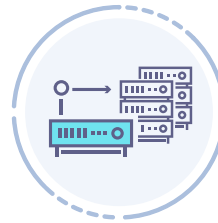
Trusted Auto Scaling

- Get started with as little as three FX2200 Series I nodes
- Scale-out with linear and consistent performance by simply adding individual node
- Support on-premise, hybrid cloud or multi-cloud applications

Always On

- Highly available, Always-on clustered design
- Non-disruptive upgrade and maintenance operations
- Central monitoring tools and integrations
- Robust application support and services

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Technical Specification

Fortanix Runtime Encryption Appliance FX2200 Series I Node Specification	
Cryptography	Full NSA Suite B algorithms
Interfaces supported	REST APIs, PKCS#11, CNG, JCE
Certifications	FIPS 140-2 Level 3 validated
Operating environment	Fortanix Data Security Manager™ (running on Ubuntu Linux 16.04)
Management / Monitoring	Centralized Management with Web UI, CLI and APIs Syslog, Splunk integration
High Availability	Scale-out clustered design with built-in HA / DR
Reliability	Solid-state devices (SSD) Dual-hot power supplies, Field replaceable components MTBF 250,000 hours (basis of parts count method)
Network Connectivity	2 x 10G ethernet ports, 1 x IPMI port
Processor	Intel Xeon E3 (support for SGX)
Memory	32GB RAM
Dimensions	1U Rackmount
Weight	47lbs / 21.319Kg
Power Supply	300 watts
Voltage / Frequency	110-240 V / 50-60 Hz
Thermal Rating	1,164 BTU/hr (maximum)
Temperature	Operating: -5 to 40 C° / storage -40 to 70 C°
Safety and Environmental	FCC Class B

Fortanix Runtime Encryption Appliance FX2200 Series I - front view

Fortanix Runtime Encyption Appliance FX2200 Series I - rear view

Performance

per FX2200 node

RSA	1200 signatures per second using 2048 bit keys
AES	2000 encryption ops per second of one block using 256 bit keys

Minimum 3 nodes per cluster: scales linearly and consistently as you add additional FX2200 nodes

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