

EJBCA Appliance by PrimeKey

EJBCA Appliance Model specification

With PrimeKey EJBCA Appliance, you will get your PKI projects done in time and on budget. PrimeKey's purpose-built hardware appliance is the all-in-one solution for a Public Key Infrastructure with built-in high availability and reliable functionality. It provides a ready to use EJBCA Enterprise with an integrated Hardware Security Module (HSM) and a comprehensive management interface.



EJBCA Appliance Model Specification

PrimeKey EJBCA Appliance is the easiest and most efficient way to deploy and manage an enterprise PKI system. With a pre-packaged solution, you are quickly up and running without the hassles of complex installation and integration procedures.

PrimeKey EJBCA Appliance offers the complete feature set needed to operate a comprehensive, highly available PKI. It is based on PrimeKey EJBCA Enterprise, with easy-to-use management functions, high-performance hardware and a built-in FIPS 140-2, Level 3, certified Hardware Security Module (HSM).

Depending on your requirements, PrimeKey offers five different PKI appliance models to address different needs. All models include EJBCA Enterprise with a core library for Certificate Authority (CA), Registration Authority (RA) and Validation Authority (VA) functionality capable of hosting an unlimited number of CAs. EJBCA Enterprise is Common Criteria certified.

Extra small (XS)

PKI Appliance XS is the smallest hardware appliance with support for up to 1,000 certificates. PKI Appliance XS is ideal for an offline Root CA in a PKI deployment.

Small (S)

This is your PKI start environment – EJBCA with everything you need. EJBCA Appliance S supports the operation of multiple, independent PKI hierarchies with one installation. In addition, this model includes Registration Authority (RA), functionality and highly flexible

integration interfaces based on web services, REST API and support for ACME, CMP v2 RFC 4210, SCEP, EST. This model supports up to 1 M certificates. Many customers are utilizing this model for test or lab environments.

Medium (M)

Start with model Medium if you already know that you need more certificates and better certificate issuing performance. This model supports up to 15 million certificates.

Large (L)

Model Large has better certificate issuing performance and it manages more certificates. If you have one or a couple of use cases that need a lot of certificates and you expect more use cases in the near future that will need certificates, then you should choose model Large. EJBCA Appliance L supports up to 60 million certificates.

Extra Large (XL)

EJBCA Appliance XL is suitable for extremely large PKI deployments with the need for more than 100 million certificates. It has the same certificate issuing performance as model Large, but supports up to 160 million certificates and has an upgraded storage.

EJBCA Appliance	Extra Small	Small	Medium	Large	Extra Large
Software stack: PrimeKey EJBCA Enterprise & Prime LFS	✓	✓	✓	✓	✓
Protocols & API's					
Certificate Validation (OCSP/CRL)	CRL	✓	✓	✓	✓
SCEP	-	✓	✓	✓	✓
CMP	-	✓	✓	✓	✓
EST	-	✓	✓	✓	✓
ACME	-	✓	✓	✓	✓
WebServices API	-	✓	✓	✓	✓
REST API	-	✓	✓	✓	✓
Key Features					
Certificate Capacity*	Up to 1 K	Up to 1 M	Up to 15 M	Up to 60 M	Up to 160 M
Secure & Automated Backup Mechanism	✓	✓	✓	✓	✓
2 Factor Authentication	✓	✓	✓	✓	✓
FIPS 140-2 Level 3 validated HSM inside	✓	✓	✓	✓	✓
Entry level performance HSM inside**	✓	✓	-	-	-
Standard performance HSM inside**	-	-	✓	-	-
High speed performance HSM inside**	-	-	-	✓	✓
Dedicated Mng & App Interfaces	✓	✓	✓	✓	✓
Redundancy	-	✓	✓	✓	✓
Dual power supply	✓	✓	✓	✓	✓
SNMP, Syslog, Audit Log	✓	✓	✓	✓	✓
Accessories					
SmartCards	Not included	10	10	10	10
PinPad Reader	Not included	1	1	1	1
External Battery adapter	✓	✓	✓	✓	✓
Technical specifications					
Form Factor	2U				
Dimensions	88,4 x 430 x 633mm (3 1/2 x 17 x 25 inch)				
Weight	12,5kg (27.5lb)				
Operational Environment	+10°C - +50°C (+50°F - 122°F)				
Storage Environment	-10°C - +55°C (+14°F - 131°F)				
Safety Agency Approval	CE, RoHS, FCC				
Power Supply	Dual 300W				
AC Power	110/240V, 50/60Hz				
Power Consumption	Idle 80W, max 135W				

For testing purposes, it is possible to run CA, VA and RA on one single instance of the appliance.

* Based on EJBCA Version 7.3.x, audit log on, typical key sizes (RSA 3072 SHA 384 with RSA), typical subject DN length: 100 characters. Synthetic benchmark with every second certificate revoked and no further system usage.

** Detailed performance numbers are available at doc.primekey.com.

Detailed EJBCA Appliance model comparison, including VA and RA, is available at doc.primekey.com

About PrimeKey

PrimeKey is one of the world's leading companies for PKI solutions and has developed successful solutions, such as EJBCA Enterprise, SignServer Enterprise, EJBCA Appliance and PrimeKey SEE. As a pioneer in open source security software, PrimeKey provides businesses and organizations around the world with the ability to implement security solutions, such as e-ID, e-Passports, authentication, digital signatures, unified digital identities and validation. Our products are Common Criteria and FIPS certified. We have numerous Webtrust/ ETSI and eIDAS audited installations, and our internal processes are ISO 9001, 14001, and 27001 certified.

PrimeKey has offices in Stockholm, Sweden; San Mateo, USA; Aachen, Germany; and Melbourne, Australia. Together with our global network of technology and reselling partners, we are proud to count many of the industry leading companies and institutions within IT, Telecom, Banking, Industrial, Public CAs, and different branches of government as our long-time customers.

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