

# Citrix ADC Virtual Platforms

Enabling high performance application delivery with software and container-based form factors

Citrix Application Delivery Controller (ADC) is the most comprehensive application delivery and load balancing solution for multi-cloud environments. Because its software and hardware form factors are all built on a single code base, Citrix ADC provides operational and feature consistency with comprehensive security for monolithic and microservices-based applications on-premises and in the cloud.

With pooled capacity licensing, you can easily move capacity across Citrix ADC form factors, clouds, and geographies to meet growing demand with no issues.

[Citrix Application Delivery Management \(ADM\)](#) helps you achieve holistic visibility, management, and troubleshooting for your entire Citrix ADC fleet through a single, easy to use console.

## Citrix ADC Virtual Platforms

### Citrix ADC VPX

Citrix ADC VPX provides powerful web and application delivery features like load balancing, secure remote access, application acceleration, and consistent security, all in a simple, easy-to-install virtual appliance.

### Citrix ADC CPX

Citrix ADC CPX is built from the same single ADC code base but packaged as a container for easy deployment and management through a variety of popular container management systems.

Manage east-west traffic between microservices-based applications with sophisticated load balancing, SSL offloading, and DDoS protection. Deliver exceptional performance with multi-core Citrix ADC CPX as an ingress device to handle north-south traffic for popular cluster management tools such as Kubernetes.

### Citrix ADC BLX

Citrix ADC BLX extends powerful application delivery features to bare metal. Run Citrix ADC as a Linux process without a hypervisor or container overhead on the hardware of your choice.

### Public Cloud

Citrix ADC is easy to deploy across private and public cloud environments with support for [AWS](#), [Microsoft Azure](#), and [Google Cloud Platform](#). Purchase licenses from the cloud marketplaces or simply bring your own.

## Citrix ADC VPX On-Prem

Model	Minimum Memory <sup>1</sup>	vCPUs <sup>2</sup>	ESXi	KVM	Citrix Hypervisor	Hyper-V	Recommended Network Driver
VPX 100G	2 GB	2-20	•	•			PCI passthrough
VPX 40G	2 GB	2-20	•	•	•		SRI-IOV
VPX 25G	2 GB	2-16	•	•	•		
VPX 15G	2 GB	2-12	•	•	•		VMXNET3 <sup>3</sup> or SR-IOV <sup>4</sup>
VPX 10G	2 GB	2-10	•	•	•		
VPX 8000	2 GB	2-6	•	•	•		VMXNET3 <sup>3</sup> or Paravirtualization
VPX 5000	2 GB	2-6	•	•	•		
VPX 3000	2 GB	2-4	•	•	•	•	
VPX 1000	2 GB	2-4	•	•	•	•	
VPX 200	2 GB	2	•	•	•	•	
VPX 25	2 GB	2	•	•	•	•	
VPX 10	2 GB	2	•	•	•	•	

Performance<sup>4</sup>

	Minimum	Maximum
System Throughput	10 Mbps	100 Gbps
SSL Transactions/sec (2k key certificates)	1,100	20,000
SSL ECDHE Transactions/sec (2k key certificates)	880	17,280
SSL Throughput	10 Mbps	30 Gbps

You can find more information by visiting the [Citrix ADC VPX Product Documentation](#) page.

Hypervisor Versions: For details on hypervisor support, visit the [Support Matrix and Usage Guidelines](#) on the Citrix website.

1. For Standard license, VPX minimum memory requirement is 2 GB for up to 2 vCPUs. For Advanced or Premium, VPX minimum memory requirement is 4 GB for up to 2 vCPUs. For the optimal performance, irrespective of the license, we recommend 4 GB memory per vCPU (e.g., for a VPX with 6 vCPUs, we recommend having 24GB memory allocated).

2. Processors supported: Intel VTx.

3. VMXNET3 is supported on ESXi versions only.

4. Performance validated for Citrix Hypervisor using SR-IOV only.

Citrix ADC Public Cloud Platform			
Model <sup>5</sup>	AWS	Azure	GCP
VPX 10	••	••	••
VPX 200	••	••	••
VPX 1000	••	••	••
VPX 3000	••	••	••
VPX 5000	••	• <sup>2</sup>	••
VPX 8000	• <sup>1</sup>	• <sup>2</sup>	• <sup>3</sup>
VPX 10000	• <sup>1</sup>	• <sup>2</sup>	• <sup>3</sup>
VPX 15000	• <sup>1</sup>	• <sup>2</sup>	• <sup>3</sup>
VPX 25000	• <sup>1</sup>	• <sup>4</sup>	• <sup>4</sup>
VPX 40000	• <sup>4</sup>	• <sup>4</sup>	• <sup>4</sup>

You can find more information by visiting the [Citrix ADC VPX Product Documentation](#) page.

Note: • - means support for BYOL only and •• - means support for BYOL & Marketplace Subscription

1. AWS - VPX 8000, VPX 10G, VPX 15G, and VPX 25G, VPX40G and VPX 100G are applicable for BYOL only on AWS. With larger BYOL licenses, VPX can achieve up to 30 Gbps Max throughput and higher SSL TPS. EC2 instances should be selected based on the performance requirement. C5,C5n and M5 instance families are recommended for higher performance.

2. Azure - VPX 3000,VPX 5000, VPX 8000, VPX 10000, VPX 15000 needs an Azure instance which support Accelerated Networking (Standard\_D4s\_v4 and above). Cloud instance should also support the throughput as per license.

3. GCP - VPX 8000, VPX 10G, VPX 15G, and VPX 25G, VPX40G and VPX 100G are applicable for BYOL only on GCP. With larger BYOL licenses, VPX can achieve up to 15 Gbps Max throughput and higher SSL TPS

4. Higher Bandwidth BYOL VPX license will not support the Bandwidth as per license but CPU intensive work loads will get higher performance.

5. vCPU licenses are also supported and available as part of vCPU pooled.

Citrix ADC CPX Platform				
Model	Minimum Memory	vCPUs	Throughput	Supported Container Managers
CPX	1 GB	1-7	1-10 Gbps	<ul style="list-style-type: none"> <li>• Docker version 1.12 and above</li> <li>• Kubernetes</li> <li>• Red Hat OpenShift</li> <li>• Amazon Elastic Kubernetes Service (EKS)</li> <li>• Azure Kubernetes Service (AKS)</li> <li>• Google Kubernetes Engine (GKE)</li> <li>• Rancher</li> <li>• Pivotal Container Service (PKS)</li> <li>• Mesosphere DCOS,</li> <li>• Apache Mesos Marathon</li> </ul>
		1 Core	1 Core (Sidecar CPX)	3 Cores
				7 Cores
System Resources				
Maximum vCPUs		1	1	3
Maximum Memory		2	1	6
Performance <sup>1</sup>				
HTTP Throughput (Gbps) <sup>2</sup>		4.6	4.6	6.5
SSL 2K Throughput (Gbps)		1.17	1.17	2.07
HTTP Requests/sec		193,500	193,500	303,300
SSL Transactions/sec (2K Key Certificates)		1,125	1,197	2,250
SSL Transactions/sec (ECDHE-RSA[2K])		1,004	1,020	1,962

You can find more information by visiting the [Citrix ADC CPX Product Documentation](#) page.

Note:

1. Network Driver: 2x Xeon CPU E5-2687W v3 20 Physical Cores @ 3.0 GHz, OS: Centos 7.6, CPX version: 13.0-39.4, NIC: 2x40 Gbps XL710 (Dual Port)
2. This is network I/O bound performance. You may achieve higher performance based on packet processing size.

**Citrix ADC BLX Platform**

BLX Model	Minimum Memory	vCPUs	Throughput	Supported Linux Distribution
Non-DPDK	4 GB	1-28	1-12 Gbps	CentOS, Oracle Linux, Ubuntu Linux, RedHat Linux, Amazon Linux
DPDK	4 GB	1-28	1-100 Gbps	CentOS, Oracle Linux, Ubuntu Linux, RedHat Linux, Amazon Linux

You can find more information by visiting the [Citrix ADC BLX Product Documentation](#) page.

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