





# The Network Functions Platform Company

**Array Networks develops purpose-built systems for deploying virtual networking and security functions with guaranteed performance. Proven around the world, Array is recognized by leading enterprises and service providers for next-generation technology that delivers agility at scale.**



***Host Array application delivery virtual appliances, or host virtual appliances from best-of-breed networking and security vendors; the choice is yours. With Array's virtualized hardware environment and a growing ecosystem of platform partners, businesses can finally reconcile their desire for agility with their need for performance.***

# Delivering Agility at Scale

Data centers continue to grow in complexity and expectations, with networking and security professionals looking for ways to gain agility through software-centric approaches. However, many still rely on hardware to meet the requirements of business-critical operations.

The competing imperatives force a trade-off – opt for agility and face significant expense and complexity for guaranteed performance, or opt for dedicated hardware appliances and sacrifice agility. IT leadership is faced with an unfair choice that pits one imperative against another and constrains their ability to achieve business objectives.

Array Networks is pioneering an innovative approach to eliminating this compromise. Our Network Functions Platform combines the best attributes of dedicated hardware, virtualization and software-centric computing to create an environment that provides guaranteed performance for virtual networking and security functions.

In other words, Array is enabling agility-at-scale.

Organizations can transition to an agile approach, without sacrificing the performance needed for business-critical applications. Racks of legacy gear can be consolidated to reduce space, power and cooling costs. Services can be provisioned on-demand with guaranteed SLAs. Security need not compromise the user experience.

# AVX Series Network Functions Platform



AVX5800



AVX7800



AVX9800

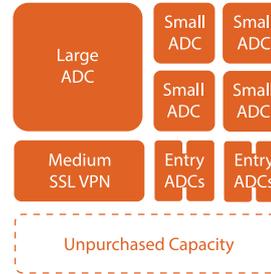
## Agility of Cloud & Virtualization

### Flexible Size Options

Mix and match up to 32 entry, 16 small, 8 medium or 4 large VMs

### Pay-As-You-Go Capacity

Add VA licenses as you need them up to system capacity



### Multiple Network Functions

Deploy Array ADC and SSL VPN, as well 3rd-party networking and security functions

### Management Integration



### Full Resource Segregation

Dedicated resources for hypervisor management eliminates VM contention

### Hypervisor Management



### Guaranteed Performance

Dedicated CPU, SSL, RAM and I/O per VM for guaranteed application performance

## Performance of Dedicated Appliances

# Top 5 Reasons to Choose Array's Network Functions Platform

## 1 Software-Centric Agility

Gain the flexibility of private cloud virtualized infrastructure, with flexible sizing, functions, orchestration and pay-as-you-go consumption.



## 2 3rd-Party Ecosystem

Host Array application delivery virtual appliances, or virtual appliances from best-of-breed networking and security vendors.



## 3 Superior Economics & Value

Reduce costs associated with space, power and cooling, drive efficiency through orchestration and minimize reliance on costly hardware.



## 4 Guaranteed Performance

Reserved CPU, memory, SSL and physical interfaces per VM deliver both superior performance and guaranteed performance.



## 5 Streamlined Path to NVF

Abstract complexity associated with virtual and physical port mapping, CPU pinning, NUMA boundary settings, SR-IOV and drivers.



# Platform Ecosystem

AVX Series Network Functions Platforms are capable of hosting virtual appliances (VAs) developed by Array Networks as well as third-party networking and security vendors. Our growing ecosystem of third-party vendors offers a wide variety of networking and security VAs that run on the AVX Series with optimal performance. As an open platform, the AVX Series may also be used to host any KVM, Ubuntu or CentOS-based virtual appliance including popular open source networking and security solutions. Just a few examples of the virtual appliance AVX Series supports are below.



*Array enables us to not only offer their own security and networking virtual appliances, but those from a broad variety of third-party vendors, including Fortinet and others, with performance thresholds that compete with dedicated hardware appliances.*

**DENEY DENTEL, PRESIDENT AND CEO OF NORDISK SYSTEMS, INC.**

# App Delivery & Security Ecosystem Functions

AVAILABILITY	PERFORMANCE	SECURITY
Server Load Balancing	Caching	Web Application Firewall
Global Server Load Balancing	Compression	Next-Generation Firewall
Link Load Balancing	SSL Acceleration	SSL VPN Remote Access
Traffic Management	WAN Optimization	SSL Intercept
Customized Scripting	Traffic Shaping	DDoS Protection



## For App Delivery

Many data centers are home to a fleet of traditional hardware load balancers. These products typically deliver a high degree of performance; however, they are also inflexible and can incur significant expense in terms of space, power and cooling.

Array takes a more efficient approach. Consuming just two rack units, our platform hosts up to 32 networking and security virtual appliances, each delivering guaranteed performance equivalent to a one-rack-unit hardware appliance.



## For MSPs

MSPs face competing imperatives. Opt for the agility of virtualized environments and face significant complexity and expense for performance; opt for hardware appliances and sacrifice the agility needed for on-demand services.

Array eliminates this trade-off. Our purpose-built service creation platform reserves hardware resources for each hosted function, ensuring that best-of-breed networking and security virtual appliances operate at peak levels.



## For Security

If security appliances do not have visibility to traffic, they are not effective; conversely, if tasked with decryption to provide visibility, system performance can decrease significantly.

Array's platform intercepts encryption from hosted security virtual appliances. Decrypted traffic may be routed to interconnected security services and re-encrypted prior to transport – providing an ideal combination of performance, security and agility.

# Over 5000 Worldwide Satisfied Customers

**SOFTLAYER**  
an IBM Company



**Humana.**



**BINGHAMTON**  
UNIVERSITY  
STATE UNIVERSITY OF NEW YORK

**HITACHI**



*eClinicalWorks*

*City of*  
**SANTA BARBARA**



**LACCD**

**ORACLE**



**Lbrands**



**amdocs**



**DELTA DENTAL**



**atmosera.**

# Flexible Deployment Models

Array's ADC and SSL VPN solutions support a full range of networking and security deployment models, from utility consumption at leading public cloud providers, to virtual appliances with broad hypervisor support, to our AVX Series Network Functions Platform, to dedicated hardware appliances powered by our SpeedCore® multi-processing technology for the ultimate in performance and scalability.

## Public Cloud



## Private Cloud



## Dedicated Appliance



## APV Series / vAPV

### Application Delivery Controllers



An essential networking element responsible for the availability, scalability, performance, control and security of applications, Web sites, ecommerce transactions and cloud services.

Integrates load balancing, SSL acceleration, caching, compression, application security, L7 scripting and other key networking functions.

Achieves ROI by improving application performance and server efficiency.

## AG Series / vxAG

### Secure Access Gateways



Provides secure access to business applications and resources from any remote or mobile device for any user anywhere.

Integrates SSL encryption, L3 – L7 access, AAA, end-point and server-side security, single sign-on, dual-factor authentication and an SDK for developing mobile apps with built-in secure access.

Achieves ROI by increasing productivity and mitigating business disruptions.

## AMP

### Monitoring & Management



Offers a centralized user interface for IT staff to monitor, manage, configure and update Array load balancers and SSL VPNs.

Provides instant insight into user behaviors for analysis and audit purposes, as well as device and service status for at-a-glance visualization of trends and performance issues.

Achieves ROI by streamlining management and updates of multiple Array devices, and easy visualization.

# Array Networks Company Snapshot

**FOUNDED:**

2000

**HEADQUARTERS:**

Milpitas, CA, USA

**EMPLOYEES:**

250+

**MARKET:**

Network Functions  
Virtualization (NFV)

**PRODUCTS:**

Network Functions Platforms,  
ADCs and SSL VPNs

**SEGMENTS:**

Enterprise, Service  
Provider, Public Sector

**TECHNOLOGY:**

30+ Patents

**CUSTOMERS:**

5000+ Worldwide



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1371 McCarthy Blvd. Milpitas, CA 95035 | Phone: (408) 240-8700 Toll Free: 1-866-MY-ARRAY | [www.arraynetworks.com](http://www.arraynetworks.com)

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