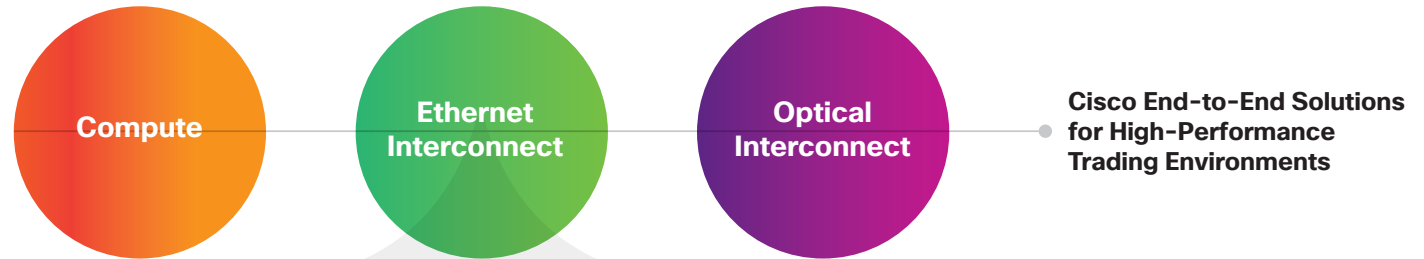


# Cisco Algo Boost

## Your Competitive Advantage for High-Performance Trading



Algo Boost brings you:

- **Ultra-low latency – As low as 50ns with Cisco Nexus 3548**
- **Active buffer monitoring to manage microbursts**
- **Network Address Translation (static and dynamic)**
- **Intelligent traffic mirroring**
- **IEEE 1588 Precision Time Protocol with Pulse-per-Second (PPS)**



Cisco Nexus OS – Robust, Feature Rich, Proven in over 10,000 Deployments

### Performance Visibility

- Extensive system thresholding
- XML API

### Programmability

- Cisco ONE – Open Network Environment (SDN)

### Analyze and React

- Embedded Event Manager
- Advanced scripting with Python and Scheduler

### Auto Provision

- Power on Auto Provisioning (PoAP)



Want to see a demo of the future?  
[cisco.com/go/algoboost](http://cisco.com/go/algoboost)



# Introducing the Cisco Nexus 3548 with Algo Boost

Orderable Today!

## 10G latency of ~250ns

- L2 and L3; Unicast and Multicast traffic types
- All packet sizes (64 byte-9 KB)
- Full line rate/full-mesh traffic on all ports
- All features
- Full hardware table size

## Hardware table sizes:

- 32K IPv4 UC Routes
- 64K IPv4 Hosts
- 8K IPv4 MC Routes

**Warp SPAN:  
Feed Replication**  
10G latency  
of ~50ns

## Intelligent Traffic Mirroring

- ERSPAN with PTP time stamping
- 8 concurrent SPAN sessions
- Filtered, sampled, truncated SPAN

## 18 MB of packet buffer

- Hardware-based Precision Time Protocol with pulse-per-second output



**Warp-mode:  
10G latency of ~190ns**  
(restricted table size)

- Line-rate 100M/1G /10G /40G SFP+ ports  
(use "break-in" cables for 40G)

- Static and dynamic NAT  
(network address translation)

- Active buffer monitoring

- Priority Flow Control with  
"lossless" Ethernet support

- Runs industry-leading  
Cisco Nexus-OS

- 4K ACL TCAM  
(Can be flexibly assigned to ingress/egress ACLs)

- Bidirectional PIM



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