Force10 Networks

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Reliable Business Networking

**Force10 Networks** is a pioneer in building and securing reliable, high performance networks that extend pervasive reliability, network control and scalability from the data center to the enterprise wiring closet to create a unified network fabric. With its no compromise approach to networking and advances in high density Gigabit and 10 Gigabit Ethernet switching, routing, and security, Force10 delivers the innovative technologies that allow customers to transform their networks into strategic assets at the lowest total cost of ownership. For additional information, please visit www.force10networks.com.

Delivering the Industry's Most Reliable High Density Networks

- Fewer Devices
- Easier to Manage
- Lower CapEx
- Lower OpEx

Force10 enables customers to build and secure reliable networks at the lowest total cost of ownership.
Next Generation Network Edge Demands Greater Resiliency

- Network, remote worker, and data center edges blurring

- Higher resiliency required at the edge
  - Network edge switches now part of the voice infrastructure
  - Down time is now “phone down” as well
  - Core-like resiliency is needed to ensure carrier class reliability
  - Security and mobility pressures

- Build capacity by paying as you go
  - Fixed configuration provides greater flexibility at lower cost for building network edge on as needed basis
  - High density, small form factor with 10 GbE uplinks
Force10’s Market Disruptions
Industry Leading Density & Resiliency

- Modular FTOS software
- High density + resiliency = network economics
- Scalable system capacity
- 24/7, high touch worldwide support

Driving Disruptions in the Enterprise and Midsize Data Center

High End Data Center

Enterprise LAN

Midsize Data Centers
Purpose-Built Ecosystem
Path to Reliable Business Networks

Business Critical Services

VoIP
Network-Based Services
Security
Mobility

Customer Evaluation Criteria

The Network

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Force10’s Technology Alliance Partners (TAP) Program
Extending the S-Series beyond the data center to the network edge
  – Bring core-like resiliency and security to the network edge
  – Build foundation for next generation network edge

S-Series S50V & S50N
  – Line-rate fixed configuration 48-port 10/100/1000 switch
  – Optional 4 x 10 GbE uplinks and stacking
  – PoE enabled at $187 per port

S-Series S25P
  – Line-rate fixed configuration 24-port GbE or 100Base-FX fiber
  – Optional 4 x 10 GbE uplinks and stacking
  – Cost-effective fiber performance and security at the network edge
**S-Series Advantages**

- Low cost/port, cost/Gbps
- Standards-based technology to enable interoperability with more vendors
- Ease of configuration and management
- Access and security features
- AC+DC power redundancy
- Easy web-based and SNMP-based management
- Ability to segregate voice, video and data traffic
- QoS capabilities for voice, video and data
- PoE support
- L2 device with optional L3 software upgrade
## S50N & V Stand Up To The Test!

<table>
<thead>
<tr>
<th>Feature</th>
<th>Force10 S-Series S50N/V</th>
<th>SMC 8648T</th>
<th>Cisco Catalyst 3750-48TS-E / S</th>
<th>Extreme Summit 400-48t</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Price / Performance</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>List price</td>
<td>$8,000</td>
<td>No Data</td>
<td>$10,995</td>
<td>$9,000</td>
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<tr>
<td>Low cost upgrade for Layer 3 features</td>
<td>$2,000</td>
<td>No</td>
<td>$3,995</td>
<td>No data</td>
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<tr>
<td>Using next generation silicon</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
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<tr>
<td><strong>Scalability</strong></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>High capacity switch fabric</td>
<td>288 Gbps</td>
<td>88 Gbps</td>
<td>64 Gbps</td>
<td>160 Gbps</td>
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<tr>
<td>Dedicated stacking bandwidth</td>
<td>96 Gbps</td>
<td>0</td>
<td>32 Gbps</td>
<td>40 Gbps</td>
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<tr>
<td><strong>Flexibility</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Redundant power supply</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Seamless upgrade to 10 GbE</td>
<td>XFP, CX4</td>
<td>No</td>
<td>No</td>
<td>XENPAK</td>
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<tr>
<td>Largest hardware tables</td>
<td>Yes</td>
<td>No</td>
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### S-Series vs. Competition

<table>
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<tr>
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<tbody>
<tr>
<td>GbE Ports</td>
<td>48</td>
<td>48</td>
<td>48</td>
<td>24</td>
</tr>
<tr>
<td>10 GbE Ports</td>
<td>4</td>
<td>0</td>
<td>2</td>
<td>2</td>
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<tr>
<td>Stacking Ports</td>
<td>4</td>
<td>2</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Optional 10 GbE and Stacking</td>
<td>✔️</td>
<td>✗</td>
<td>✗</td>
<td>✗</td>
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<tr>
<td>Stacking Bandwidth Between Units</td>
<td>96 Gbps</td>
<td>32 Gbps</td>
<td>✗</td>
<td>✗</td>
</tr>
<tr>
<td>Switching/Routing Forwarding</td>
<td>288 Gbps 131 Mpps</td>
<td>32 Gbps 38.7 Mpps</td>
<td>212 Gbps 101 Mpps</td>
<td>128 Gbps 65 Mpps</td>
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<tr>
<td>PoE Power</td>
<td>320W</td>
<td>370W</td>
<td>480W</td>
<td>370W</td>
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</table>

Optional 10 GbE and Stacking:
- Force10 S50V: ✔️
- Cisco 3750G-48PS: ✗
- Foundry FastIron GS 648P: ✗
- Extreme Summit X450e-24p: ✗
S50V and S50N Overview

- **Speeds and feeds**
  - 48 x RJ45 10/100/1000Base-T auto-sensing, auto-MDIX
  - 4 x SFP GbE ports shared with last 4 RJ45 ports
  - 2 x expansion slots in rear
  - S50V only: PoE capability on all ports
    - 320W available for PoE support with up to 15.4W power on a port
S25P Overview

- **Speeds and feeds**
  - 24 x GbE or 100Base-FX SFP ports
  - 4 x copper 10/100/1000Base-T auto-sensing, auto-MDIX ports shared with last 4 SFP ports
  - 2 x expansion slots in rear
Force10 S-Series in the market

- 100s of customers
- 1000s S50s Sold

Logos of various companies such as YouTube, Facebook, Yahoo!, Netflix, Dell, PGS, Digital China Networks, Berkeley Lab, YuMe Networks, Adobe, friendster, Level 3 Communications, eHarmony, BitTorrent, and NASA.
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