

high-performance

Power over Ethernet Gigabit connectivity



Product Bulletin

Nortel Networks BayStack 5520 Switches

Key features and benefits

- **High-density Gigabit desktop and PoE connectivity**—Up to eight switches can be stacked to achieve up to 384 10/100/1000 ports in a stack. *Pay as you grow while saving premium closet space.*
- **IEEE 802.3af compliant**—Provides Power over Ethernet to any IEEE 802.3af compliant device such as IP phones, wireless access points, network cameras, security and lighting devices, and access control devices (badge readers). *Being standards-compliant means flexibility to power multiple vendors' devices.*
- **Convenience of a single cable**—Data and power can be transmitted over one cable without using a power outlet. *No need for a separate cable connecting the device to a power outlet.*
- **Innovative FAST stack design**—FAST (Flexible Advanced Stacking Technology) stack design allows for simultaneous bi-directional traffic flow on each stacking port, resulting in up to 640-Gbps stacking bandwidth for the stack—the highest stacking bandwidth in the industry today. *Faster traffic flow across the stack provides support for bandwidth-intensive applications.*
- **High-performance switch fabric of 160 Gbps**—Wire-speed performance. *No dropped packets.*

Part of Nortel Networks BayStack* 5000 Series, BayStack 5520 Switches are one rack unit high stackable 10/100/1000 Mbps Ethernet Layer 3 routing switches designed to provide high-density Gigabit desktop connectivity and Power over Ethernet (PoE) capability to mid-size and large enterprise customers' wiring closets.

Available in two models—BayStack 5520-48T-PWR Switch with 48 10/100/1000BASE-T RJ-45 ports, and BayStack 5520-24T-PWR Switch with 24 10/100/1000BASE-T RJ-45 ports, they feature four built-in SFP (Small Form Factor Pluggable) GBIC (Gigabit Interface Converter) ports for uplink. Both models may be stacked with each other or themselves, in stacks of eight units, to achieve a maximum of 384 10/100/1000 ports for high-density desktop switching and PoE connectivity. These models will also be able to stack with BayStack 5510 Switches and future BayStack 5000 models.

Key features comparison

| Features | BayStack 5520-48T-PWR | Cisco Catalyst 3750-48PS |
|---------------------------|-----------------------|--------------------------|
| # of ports per unit | 48 10/100/1000 Mbps | 48 10/100 Mbps |
| List price (US) | \$7,995 | \$8,495 |
| IEEE 802.3af compliant | Yes | Yes |
| # of ports per stack | 384 10/100/1000 Mbps | 432 10/100 Mbps |
| Layer 3 routing | Static | Static and RIP |
| Switch height | 1 RU | 1 RU |
| Stack height | 8 RU | 9 RU |
| Switch fabric | 160 Gbps | 32 Gbps |
| Total stack throughput | Up to 640 Gbps | 32 Gbps |
| Uplink capacity per stack | Up to 32 GBICs | Up to 18 GBICs |
| Recessed stack connectors | Yes | No |

All BayStack Switches come with a lifetime warranty.
 RU = Rack Unit
 Competitor's product information shown here is from company's Web site.

Key features and benefits—continued

- **Compact form factor**—One rack unit high design allows a stack to support up to 384 10/100/1000 ports in an 8RU space for Power over Ethernet and Gigabit desktop connectivity. *Saves premium space in the wiring closet.*
- **Layer 3 routing**—Supports wire-speed Layer 3 IP switching across the stack. *Helps improve network performance as routing doesn't need to go to the network core and can be done within the switch or stack.*
- **Single software image**—BoSS (BayStack operating system Switching Software) allows BayStack 5520-48T-PWR, 5520-24T-PWR, 5510-48T, 5510-24T, and future BayStack 5000 models to stack together. *Simplifies software upgrades.*
- **Higher uplink capacity**—Up to 32 GBIC ports are available for uplink connectivity in a full stack. *Faster data traffic between the stack and the core switches.*
- **Power sharing options**—Can be used in conjunction with the BayStack 15 PSU (Power Supply Unit) to create a load sharing or RPSU (redundant power supply unit) solution. *Resiliency for the switches means greater network uptime.*

Ordering information

| Order number | Description | U.S. list price |
|--------------|---|-----------------|
| AL1001?05* | BayStack 5520-48T-PWR Power over Ethernet Switch with 48 10/100/1000 ports plus 4 built-in SFP GBIC ports, built-in stacking ports, and a 1.5-foot cascade cable | \$7,995 |
| AL1001?06* | BayStack 5520-24T-PWR Power over Ethernet Switch with 24/10/100/1000 ports plus 4 built-in SFP GBIC ports, built-in stacking ports, and a 1.5-foot cascade cable | \$5,995 |
| AL2018009 | BayStack 5000-SRC Cascade Return Cable (3 feet) | \$295 |
| AL2018010 | BayStack 5000-SSC Cascade Cable (1 foot) | \$195 |
| AL2018011 | BayStack 5510-SSC Cascade Cable (1.5 feet) | \$195 |
| AL2018013 | BayStack 5510-SSC Cascade Cable (10 feet) | \$345 |
| AL2018014 | BayStack 5510-SSC Cascade Cable (5 meter/ 16.4 feet) | \$395 |
| AA1419013 | 1-port 1000BASE-SX SFP GBIC (LC connector) | \$345 |
| AA1419014 | 1-port 1000BASE-SX SFP GBIC (MT-RJ connector) | \$345 |
| AA1419015 | 1-port 1000BASE-LX SFP GBIC (LC connector) | \$995 |
| AL2011013 | Console cable for use with BayStack and Passport 8300 Switches | \$15 |
| AA0005017 | BayStack 15 Power Supply Unit Chassis | \$995 |
| AA0005?19* | BayStack 15 600-watt RPSU module (up to three modules can be installed in the chassis; each module requires a DC connector cable to connect to a single BayStack 5520 Switch) | \$1,795 |
| AA0005018 | BayStack 15 DC connector cable for BayStack 5520 Switch (required for connection to BayStack 15 RPSU module) | \$125 |

** The seventh character (?) of the order number is replaced with the proper code to indicate nationalization:

"A" – No power cord included

"B" – European "schuko" power cord common in Austria, Belgium, Finland, France, Germany, The Netherlands, Norway, and Sweden.

"C" – Power cord commonly used in the United Kingdom and Ireland.

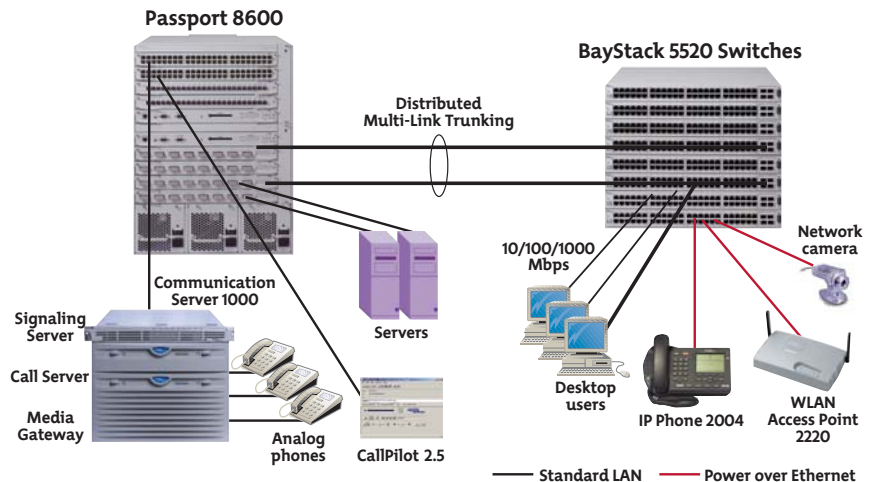
"D" – Power cord commonly used in Japan.

"E" – North American power cord.

"F" – Australian power cord, also commonly used in New Zealand and the People's Republic of China.

16 CWDM GBIC options also available (8 40km GBICs at \$4,995 each and 8 70km GBICs at \$6,995 each).

Enterprise IP Telephony Solution



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