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Product Bulletin

Ethernet Routing Switches at a glance...

Ethernet Routing Switch 8600 Series

The Ethernet Routing Switch 8600 (formerly known as Passport 8600) series is the premier modular routing switch in the market designed for the network core of an enterprise.

- > 720 Gbps architecture and up to 384 Mpps forwarding rate
- > Reliable application-based performance with extremely resilient Split Multi-Link Trunking (SMLT) technology to provide sub-second failover
- > Flexibility in connectivity; copper and fiber Ethernet, ATM, PoS, WDM and 10 Gigabit Ethernet
- > Hardware-based Layer 2-7 routing and packet classification for critical secure network traffic
- > Redundant and hot-swappable switch fabrics, I/O modules and power supplies

Ethernet Routing Switch 8300 Series

The Ethernet Routing Switch 8300 (formerly known as Passport 8300 Ethernet Switch) series is the next generation of modular switches for enterprise wiring closets and aggregation points.



Ethernet Routing Switch 8600



Ethernet Routing Switch 8300

- > High density 10/100/1000 connectivity
- > Ideal for deploying both web-based and converged applications with QoS with eight queues, traffic policing and Power over Ethernet
- > Secure connectivity with user-based policies, SNMPv3 and 802.1x EAPoL authentications, and encryption
- > Redundant and hot-swappable switch fabrics, I/O modules and power supplies

Ethernet Routing Switch 1600 Series

Ethernet Routing Switch 1600 switches (formerly known as the Passport 1600 Routing Switch) are fixed port Layer 3 switches ideal for aggregation in large enterprises or the core of small to medium networks.

- > Available in three different configurations to suit customers' needs
- > Increases network performance with QoS support for DSCP and 802.1p and high-performance, wire-speed routing
- > Security with packet filtering, multi-level access and defined access policies† help switch against unauthorized management access
- > Increases network reliability and resiliency with redundant power supplies and VRRP



Ethernet Routing Switch 1600



Ethernet Routing Switch 1424T



Ethernet Routing Switch 5520

Ethernet Routing Switch 1424T

The Ethernet Routing Switch 1424T (formerly known as the Passport 1424T Routing Switch) is a fixed port Layer 3 switch that is ideal for the edge of the network at a cost-effective price.

- > Application performance with comprehensive QoS features
- > Supports JDM, SNMP and web-based management, providing quick error-free configuration and maintenance
- > GBIC ports allow for connectivity of single and multimode fiber with support for Gigabit Ethernet SX, LX, XD, ZX as well as 1000BASE-T connectivity

Ethernet Routing Switch 5510/5520

Ethernet Routing Switch 5510/5520 (formerly known as BayStack 5510/5520) models are 1 rack unit high stackable 10/100/1000 Mbps Ethernet Layer 3 routing switches.

- > High-density stackable 10/100/1000 models
- > Available in Power over Ethernet and non-Power over Ethernet versions
- > Innovative stacking using FAST stack (Flexible Advanced Stacking Technology) — providing up to 640 Gbps
- > Fail-safe stacking and redundant power support to ensure minimal network downtime

	Ethernet Routing Switch 8600 PR	Ethernet Routing Switch 8300	Ethernet Routing Switch 1648T	Ethernet Routing Switch 1612G	Ethernet Routing Switch 1624G	Ethernet Routing Switch 1424T	Ethernet Routing Switch 5510/5520
Form factor/chassis	10/6/3 slot chassis	10/6 [†] slot chassis	Fixed -1U	Fixed -1U	Fixed -1U	Fixed -1U	Fixed -1U
Autonegotiating 10/100BASE-TX	Up to 384	Up to 384	48	0	0	24	0
Gigabit Ethernet ports	Up to 240	Up to 200	4	12	24	2	Up to 384/ Up to 384 PoE
Switch fabric	720 Gbps architecture with 512 Gbps	320 Gbps	24 Gbps	24 Gbps	48 Gbps	12.8 Gbps	160 Gbps
Packet-per-second forwarding rate	Up to 384 Mpps	128 Mpps	13 Mpps	18 Mpps	36 Mpps	5.1 Mpps	71.4 Mpps
Policy-based Quality of Service (QoS)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Layer 4-7	Yes	Yes [†]	No	No	No	No	No
Redundant power	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Network management	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Security	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Multicast	Yes	Yes	Yes	Yes	Yes	Yes	No
Link Aggregation Multi-Link Trunking (MLT)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
High availability with SMLT	Yes	Yes [†]	No	No	No	No	No
Spanning tree	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RIP v1/2, OSPF, ECMP, BGP-4	Yes	Static, RIP v1/2 [†]	RIP v1/2, OSPF	RIP v1/2, OSPF	RIP v1/2, OSPF	RIP v1/2, OSPF	No
IGMP v1/2, IGAP, DVMRP, PIM-SM	Yes	Yes [†]	IGMP v1/2	IGMP v1/2	IGMP v1/2	IGMP v1/2	No

[†] Future release

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