

Superfast switches and routers offer advantages beyond their blistering speed

Vendor	Product	Description	Features
Alcatel-Lucent Alcatel Internet Networking Inc. Calabasas, Calif. 800-995-2612 www.alcatel.com	OmniSwitch 8800	An intelligent multilayer switch for enterprise core and backbone applications, high-density Gigabit Ethernet aggregation, large data centers, server farms and Gigabit Ethernet MANs	10/100/1,000/10-Gigabit Ethernet nonblocking, full-duplex multilayer security, authenticated VLANs and authentication services, enhanced ACLs, NAT and PAT, application-aware switching, embedded wire-speed server load balancing IP/IPX routing, IP multicast switching, MPLS and IPv6 support
Atrica Inc. Santa Clara, Calif. 408-562-9400 www.atrica.com	A-8000 Series	A high-speed core Metro switching solution featuring rapid service provisioning and reduced operational costs	The A-100 is a 17-slot, high-density rack chassis supporting up to 15 10-Gigabit Ethernet ports or up to 120 Gigabit Ethernet ports, MPLS-based architecture, sub-50-millisecond failure recovery, redundant DC power; the 8800 is a 34-slot chassis with 10-Gigabit interfaces and can multiplex up to 32 wavelengths of 10-Gigabit Ethernet on a single fiber
Broadcom Corp. Irvine, Calif. 949-450-8700 www.broadcom.com	BCM5673	A 10-Gigabit Ethernet multilayer switch that delivers wire-speed Layer 2 through Layer 7 switching and routing over IOGBase-CX4 copper medium	Single 10-Gigabit Ethernet port, single 10-Gigabit Ethernet HiGig Uplink/Expansion port for stacking, integrated 512K packet buffer memory-on-chip, Layer 2 and 3 tables on-chip, wire-speed Layer 2 and 3 switching, line-rate switching for all packet sizes, supports eight classes of service, advanced packet flow control, hardware support for IP multicasting and multicast replication, scalable up to 32 StrataXGS modules
Cisco Systems Inc. San Jose, Calif. 408-426-4000 www.cisco.com	Cisco I2000 Series Routers	Eleven models of intelligent routers that scale from 2.5 Gbps per slot to 40 Gbps per slot for carrier-class IP/MultiProtocol Label Switching (MPLS) core and edge networks	IP/MPL core (long-haul and regional), optical private-line aggregation (OC-48 to DSO), ATM and frame relay transport services over IP/MPLS core; OC-192/STM-64 and OC-48/STM-16 interfaces, new 2.5-Gbps slot that can be software-key upgraded to a 10-Gigabit Ethernet slot, an OC-12/STM-4 channelized interface for high-density DSI/EI services and performance route processor
	Cisco Catalyst 6500 Series Switches	Six models deliver intelligent multilayer modular switching for secure and converged services from the wiring center to the core and from the data center to the WAN edge	Models in the series deliver from 48 to 576 10/100/1,000-Mbps ports to 1,152 10/100 Fast Ethernet ports with support for multiple Gigabit and 10-Gigabit trunks; 10-Gigabit Ethernet services provided by Cisco's Supervisor Engine 720 module for nonblocking 2-port and high-density 4-port 10-Gigabit Ethernet services
Enterasys Networks Inc. Andover, Mass. 978-684-1000 www.enterasys.com	X-Pedition ER16 Router with the X-Pedition ER16-OS16-01 10-Gigabit Ethernet Module	The Gigabit Ethernet module is a single-slot line card for the X-Pedition ER16 router that lets it perform true core routing at true 10-Gbps and provide full-function Layer 1, 2 and 3 switching	Quality of service for traffic control across the enterprise (allocates bandwidth on a per-port basis, assigns traffic to queues based on selectable priorities, supports policy-based routing); supports 100 percent availability with hot-swappable and redundant components; support for link aggregation and router redundancy, load-balancing for 100 percent content availability; security via access control lists; traffic filters and management authorization via Radius; full SNMP, RMON 1 and 2 support
	Matrix N-Series Enterprise Switches	The 3-slot Matrix N3 and the 7-slot Matrix N7 switches are designed for premium edge, collapsed backbone, distribution switching and server farm aggregation implementations	Multiple interfaces including 1/100Base-TX, 10/100/1,000Base-TX, 100Base-FX, 1,000Base-X and 10-Gigabit Ethernet; used with Enterasys' Platinum DFE; both models offer at least two 10-Gigabit Ethernet IOGBase Optics slots; the total aggregate switching capacity is 240 Gbps for the N3 and 1.6 Tbps for the N7, with up to six 10-Gigabit Ethernet ports for the N3 and 14 Gigabit Ethernet ports for the N7; both models provide advanced multilayer packet classification, switching/VLAN services, distributed IP routing, several levels of security (user, network, host) and multiple management, control and analysis tools including support for SNMP versions 1, 2c and 3, RMON, HC RMON, RMON II and SMON
Extreme Networks Inc. Santa Clara, Calif. 408-579-2800 www.extremenetworks.com	BlackDiamond 10808	A true 10-Gigabit Ethernet switch designed to provide services for enterprise backbones, enterprise data centers, high-performance cluster computing, metro core, and distribution and Internet exchanges	1.6-Tbps total switching capacity with only nine-microsecond packet latency for 64-byte packets; 48 ports of 10-Gigabit Ethernet, 480 ports of Gigabit Ethernet, 480 10/100/1,000Base-T ports; multiple management modules; hardware line-rate support for IPv4, IPv6, MPLS, NAT and GRE tunneling, multiple quality-of-service guarantees, multiple security levels, self-healing system monitoring software, future support for emerging 40- and 100-Gigabit Ethernet standards
	BlackDiamond 6800 Series with the BlackDiamond 10Gx3 Module	The BlackDiamond 10Gx3 Module is a standards-compliant 10-Gigabit Ethernet module for the BlackDiamond 6800 core switching platform; Model 6816 can accept 16 10-Gigabit Ethernet ports, Model 6808 accepts eight and Model 6804 accepts four 10-Gigabit Ethernet ports	BlackDiamond 6800 Series provides between 256-Gbps and 768-Gbps of switching capacity; all models have policy-based quality of service, wire-speed Layer 2 and 3 switching, integrated server load balancing, network login and EAPS, access control lists link aggregation, redundant power supplies, SNMP, Web CLI and four RMON groups
Force10 Networks Inc. Milpitas, Calif. 408-571-3500 www.force10networks.com	Force10 E-Series	High-performance switch/routers for server and cluster consolidation, grid computing, campus backbones, next-generation Internet exchanges and metro Ethernet services	Force10 E-Series E1200/E600 provides 50 Gbps per slot and the E300 delivers 25 Gbps per slot; all deliver predictable line-rate performance with any combination of features enabled, deterministic low latency and jitter, Layer 2 and 3 functionality and robust security features; the E1200 can support 336 Gigabit Ethernet ports and 28 10-Gigabit Ethernet ports; the E600 can support 168 Gigabit Ethernet and 14 10-Gigabit Ethernet ports, and the E300 can support 72 Gigabit Ethernet and six 10-Gigabit Ethernet ports per chassis
Foundry Networks Inc. San Jose, Calif. 408-586-1881 www.foundrynet.com	NetIron Metro Router Series	A modular routing series ranging from 4-slot to 8-slot to 15-slot systems that enable standardization on a single product family for Multi Tenant Unit (MTU), Provider Edge (PE), Provider Core (P) to Internet Edge (IE) services	The NetIron 40 with four slots offers 144 10/100 ports, 56 Gigabit Ethernet ports, six 10-Gigabit Ethernet ports and six OC-3/12/48c Sonet/SDH ports per system; the NetIron 800 with eight slots offers 336 10/100 Ethernet, 120 Gigabit Ethernet, 14 10GbE and 14 OC-3/12/48c ports; the NetIron 1500 with 15 slots offers 672 10/100 Ethernet, 232 Gigabit Ethernet, 28 10-Gigabit Ethernet and 28 OC-3/12/48c slots; all models offer high-availability redundant management and interface modules, Multi-Protocol Label Switching (MPLS) and a robust Layer 3 feature set
	10 Gigabit Ethernet Module	Two-port 10-Gigabit Ethernet card designed to deliver 20 Gbps in NetIron, BigIron and FastIron modular chassis products	Wire-speed hardware-based Layer 2 switching, IP and IPX-based Layer 3 routing, Access Control Lists, traffic classification, prioritization and marking, support for jumbo frames, comes in a single port-optic version, and a single-port fixed and dual-port Xenpak version
	BigIron 4000/8000/15000 Series	Modular, chassis-based Layer 3 switches for campus, MAN and LAN/WAN environments	Delivers up to 120 Gigabit Ethernet ports and 170 million-packet-per-second performance; 10-Gigabit-ready if used with one of Foundry's 10-Gigabit Ethernet modules; high-density Packet-over-Sonet (OC-3c to OC-48c), Global Ethernet (Ethernet over Sonet) and ATM; hardware-based Layer 2, 3 and 4 switching, multiprotocol routing, policy-based VLANs, eight levels of quality of service, server multihoming, link aggregation, full IP multicast support
	BigIron M68	10-Gigabit Ethernet Layer 2 and 3 switch with terabit capacity, LAN switching and routing for high-end IP networks, especially on the backbone and aggregation points	1.28 Tbps delivering 40 Gbps of switching performance per slot; up to 32 10-Gigabit Ethernet ports per system or 320 Gigabit Ethernet ports within a chassis, or 960 Gigabit Ethernet ports in a standard 7-foot rack; wire-speed Layer 2 and 3 switching with policy-based routing, advanced quality of service delivery with advanced bandwidth management, low switching latency of less than 10 microseconds, carrier-class reliability, ASIC-based sFlow technology for wire-speed traffic accounting and monitoring
Hewlett-Packard Co. Palo Alto, Calif. 650-857-1501 www.hp.com	HP ProCurve Network Routing Switch 9300m Series	Three models (9315m, 9308m, 9304m) provide a highly scalable routing switch for high-availability networks	10/100/1,000/10-Gigabit Ethernet managed modular routing switches with four, eight or 15 open module slots for up to 232 Gigabit Ethernet ports; up to 672 auto-sensing 10/100 ports or a combination, and a maximum of 28 10-Gigabit Ethernet ports; extended port density, sFlow traffic monitoring, T-Flow traffic management with simultaneous processing of access control lists (ACLs); policy-based routing, network address translation (NAT), Layer 4 prioritization; IP/IPX/AppleTalk routing, IP multicast routing, advanced security, policy-based VLANs, optional redundant power supplies, hot-swappable chassis modules, Web interface for configuring the switches
Nortel Networks Ltd. Richardson, Texas 972-684-1000 www.nortelnetworks.com	Passport 8600 Routing Switch	A chassis-based routing switch for enterprise, carrier and service provider networks	Wire-speed Layer 2 to 7 traffic classification, multilayer redundancy; integrated, intelligent bandwidth connectivity for 10/100/1000 Ethernet, ATM, 10-Gigabit Ethernet and WDM; seamless LAN/MAN/WAN connectivity; eight policy-enabled hardware queues per port, 512-Gbps backplane switch capacity
Riverstone Networks Ltd. Santa Clara, Calif. 408-878-6500 www.riverstonenet.com	15008 Ethernet Edge Router	Blends 10-Gigabit Ethernet routing and switching with advanced services support, fine-grained traffic management and ultrareliability to meet the needs of carriers and service providers	All Riverstone enterprise technology and rights were acquired by Hewlett-Packard Co. to be used in the development of HP's ProCurve EDGE Fabric, a family of Ethernet LAN devices designed to optimize networks based on the ProCurve Adaptive EDGE Architecture
3Com Corp. Santa Clara, Calif. 408-326-5000 www.3com.com	Switch 7700	Delivers high-performance, multilayer 10-Gigabit Ethernet and Fast Ethernet switching in an integrated chassis platform; three chassis available	802.3ae 10-Gigabit Ethernet standard capable, hardware multicast routing, network login, access control lists, Layer 3 protocol authentication, rule-based packet ID, input/output queues for bandwidth management, switching fabric redundancy, BGP4 MSTP, SNMP Version 3 protocols