

## Hot Buttons

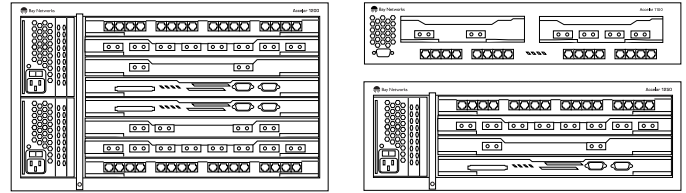
- Delivers on Bay Networks Adaptive Networking strategy to transition today's networks to the IP-optimized networks of tomorrow without adding new protocols or complex schemes.
- Offers high-capacity gigabit switching required for aggregation of switched networks and high performance departments.
- Integrates wire-speed IP routing on all ports for flexible routing where it is needed. Route with no penalty at over 7 million packets per second.
- Provides ultra-low latency and integrated priority levels to protect video, audio or other latency sensitive traffic.
- Delivers real Layer 3 VLANs — IP subnet and protocol-based VLANs with evaluation of every packet.
- Supports IP Multicast via IGMP for efficient multicast delivery.
- Offers RSVP support for upcoming multimedia applications.
- Manages non-IP protocols packet-by-packet, collecting and bridging them to the existing multiprotocol router.

## Bay Networks vs. The Competition

Refer to the table for a synopsis of the Accelar routing switch family as compared to the competition. Within the Accelar family, the Accelar 1200 is the only Gigabit Ethernet product with independently tested Layer 2 and Layer 3 performance, verifying routing and switching performance over 7,000,000 packets per second. Cisco's Catalyst 5500 Route Switch Module, though shipping, will not deploy Layer 3 functionality until early next year, giving Bay Networks a great window of opportunity against a key competitor.

Switch Features	Bay Networks Accelar 1200	Bay Networks Accelar 1250	Bay Networks Accelar 1100	Cisco Catalyst 5500	3Com CoreBuilder 7000	Cabletron MMAC Plus
L2/L3 switch architecture	Distributed ASICs; shared memory	Distributed ASICs; shared memory	Distributed ASICs; shared memory	L2 ASICs & router module	Single central processor & ASICs	Distributed processor & ASICs
Layer 2 throughput	7 Mpps*	5 Mpps	6.5 Mpps	3 Mpps	2 Mpps	4 Mpps
Layer 3 performance	7 Mpps*	5 Mpps	6.5 Mpps	500 Kpps	None	N/A
Gigabit Ethernet ports	12	6	4	4	8	2
10/100 autosense ports	96	48	32	134	None	None
100BASE-FX ports	48	24	8	134	64	96
Redundancy	CPU/PS/Link	Link	PS/Link	CPU/PS/Link	N/A	PS
MAC addresses	24,000	24,000	24,000	16,000	8,192	16,000
802.1Q/#VLANs	Yes/127	Yes/127	Yes/127	No/1,000	Yes/255	Yes/128
Fabric	15 Gbps; shared memory	7 Gbps; shared memory	9 Gbps; shared memory	3.6 Gbps; TDM bus	2.5 - 5 Gbps; TDM bus	2.8 Gbps; TDM bus
Routing latency	<10usec	<10usec	<10usec	500 usec	No plans	N/A
Routing protocols	RIP, OSPF	RIP, OSPF	RIP, OSPF	RIP, IGRP, OSPF	N/A	N/A
Multicast support/IGMP/DVMRP	Yes	Yes	Yes	Yes	None	None
Configuration	SNMP/HTML	SNMP/HTML	SNMP/HTML	Telnet	SNMP	SNMP
Drag & drop VLANs	Yes	Yes	Yes	Yes	No	No
VLAN support	mac/port/ protocol/subnet	mac/port/ protocol/subnet	mac/port/ protocol/subnet	port	port	mac/port/ protocol/subnet

\* Performance figures approved by The Tolly Group (June 1997)



## Ordering Information

Order Number	Description
<b>Accelar 1200 &amp; 1250 Modular Chassis, CPU &amp; Power Supplies</b>	
DJ1402001	XLR1200 chassis (8-slot)
DJ1402002	XLR1250 chassis (4-slot)
DJ1405?01*	XLR1298PS power supply (at least one required)
DJ1404001	XLR1297SF Silicon Switch Fabric module (at least one required)
<b>Accelar 1200 &amp; 1250 I/O Modules</b>	
DJ1404002	XLR1201SX 1-port 1000BASE-SX Gigabit Ethernet Module
DJ1404003	XLR1202SX 2-port 1000BASE-SX Gigabit Ethernet Module
DJ1404004	XLR1202SR 2-port 1000BASE-SX Gigabit Ethernet Module with LinkSafe redundant physical connections
DJ1404005	XLR1201LX 1-port 1000BASE-LX Gigabit Ethernet Module
DJ1404006	XLR1202LX 2-port 1000BASE-LX Gigabit Ethernet Module
DJ1404007	XLR1202LR 2-port 1000BASE-LX Gigabit Ethernet Module with LinkSafe redundant physical connections
DJ1404008	XLR1216TX 16-port Autosensing 10/100BASE-TX Ethernet Module
DJ1404009	XLR1208FX 8-port 100BASE-FX Ethernet Module
<b>Accelar 1100 Base Units</b>	
DJ1402?03*	XLR1100 base unit with 16 10/100BASE-TX Ethernet ports and single power supply
DJ1402?04*	XLR1100R base unit with 16 10/100BASE-TX Ethernet ports and redundant power
<b>Accelar 1100 I/O Modules</b>	
DJ1404010	XLR1101SX 1-port 1000BASE-SX Gigabit Ethernet Module
DJ1404011	XLR1102SX 2-port 1000BASE-SX Gigabit Ethernet Module
DJ1404012	XLR1102SR 2-port 1000BASE-SX Gigabit Ethernet Module with LinkSafe redundant physical connections
DJ1404013	XLR1101LX 1-port 1000BASE-LX Gigabit Ethernet Module
DJ1404014	XLR1102LX 2-port 1000BASE-LX Gigabit Ethernet Module
DJ1404015	XLR1102LR 2-port 1000BASE-LX Gigabit Ethernet Module with LinkSafe redundant physical connections

Order Number	Description
<b>Accelar 1100 I/O Modules (continued)</b>	
DJ1404016	XLR1108TX 8-port Autosensing 10/100BASE-TX Ethernet Module
DJ1404017	XLR1104FX 4-port 100BASE-FX Ethernet Module
<b>Accelar 1000 Family Software &amp; Accessories</b>	
DJ0011001	XLR1299PC PCMCIA Flash Memory Module
DJ0035001	Accelar Device & VLAN Manager for Windows 95, NT, and Solaris (Version 1.0)

\* Note: 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.

## Typical Applications

The Accelar 1000 routing switch family can be successfully deployed across the enterprise network, creating numerous topologies:

- Power workgroups gain high-bandwidth Gigabit Ethernet paths to local servers, while wire speed routing virtually eliminates latency for remote intersubnet sessions.
- For central server farms, the routing switches provide maximum throughput with no modification needed in protocol stacks or applications.
- For riser connectivity to the network center, multiple high-density 10/100/1000 Mbps segments can be aggregated into single or multiple Gigabit Ethernet links.
- For campus backbones burdened with unpredictable intranet traffic flows, the routing switches provide extensive Gigabit Ethernet bandwidth to support policy-based traffic prioritization and graphical VLAN configuration.

Accelar 1000 Routing Switch Family Data Sheet: DA595-2826WC-A  
 Accelar 1200 Tolly Group Test Report: RP595-2837WC-A

For more information:  
 Visit Bay Networks World Wide Web page at [www.baynetworks.com](http://www.baynetworks.com)

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