BigIron 4000, 8000 and 15000 systems equipped with new JetCore ASIC based modules offer 10 Gigabit Ethernet, leading Layer 2 scalability for Metro and Layer 3 scalability for ISPs. With carrier-class redundancy, fine-grain bandwidth management and wire-speed network monitoring and accounting features, the BigIron with JetCore is the product of choice for delivering high performance Metro Ethernet and Internet Service solutions.

JetCore based BigIron systems offer unparalleled Gigabit Ethernet and 10 Gigabit Ethernet density in a compact footprint. Powered by Foundry’s Enterprise IronWare or Metro IronWare operating systems, BigIron Layer 3 switches offer wire-speed, non-blocking performance, rich Quality of Service (QoS) and advanced bandwidth management features for demanding service provider and enterprise environments.

Key Features and Benefits

- Unparalleled port density maximizes revenue per rack unit by minimizing the environmental requirements such as space, power and cooling. Scale up to 232 Gigabit Ethernet ports, fourteen (14) 10 Gigabit Ethernet ports, or 672 10/100 ports in a single modular system with a total size of 17 rack units (RU).

- State-of-the-art Ternary Content Addressable Memory (TCAM) delivers large-scale wire-speed Layer 3 switching, Policy Based Routing (PBR) and robust OSPF and BGP4 implementations.

- Protection against Denial of Service attacks using IronShield™ security with wire-speed extended Access Control Lists, Secure Shell, Secure Copy, SNMP v3, and authentication with AAA, RADIUS, and TACACS+.

- Customized differentiated service offerings supporting voice, video and data on the same network with (QoS) and multicast capabilities.

- On-demand bandwidth provisioning with wire-speed fine-grain bandwidth control.

- Built-in sFlow™ technology (RFC 3176) delivers scalable network accounting and billing, capacity planning and security analysis solutions using Layer 2 – 7 per-port information.

- Carrier-class system and network reliability with support for redundant management modules with rapid failover, hot-swappable power supplies and interface modules, Rapid STP, MRP, VRRP and VSRP.

- Jumbo frame support on both Gigabit and 10 Gigabit Ethernet expands the data payload for network intense data transfers applications such as Storage Area Networks (SANs).
Datasheet

**BigIron 4000, 8000, 15000**

<table>
<thead>
<tr>
<th>Feature</th>
<th>BigIron 4000</th>
<th>BigIron 8000</th>
<th>BigIron 15000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slots</td>
<td>4</td>
<td>8</td>
<td>15</td>
</tr>
<tr>
<td>Switching Capacity</td>
<td>128 Gbps</td>
<td>256 Gbps</td>
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<tr>
<td>Routed/Switched Mpps</td>
<td>48 Mpps</td>
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<tr>
<td>Max Ports Per System</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>10 Gigabit ports</td>
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<td>7</td>
<td>14</td>
</tr>
<tr>
<td>Gigabit ports</td>
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<td>232</td>
</tr>
<tr>
<td>10/100 ports</td>
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<td>336</td>
<td>672</td>
</tr>
<tr>
<td>Max Ports Per 7’ Rack</td>
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<td></td>
</tr>
<tr>
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<td>28</td>
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<tr>
<td>Gigabit ports</td>
<td>504</td>
<td>480</td>
<td>464</td>
</tr>
<tr>
<td>10/100 ports</td>
<td>1296</td>
<td>1344</td>
<td>1344</td>
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<tr>
<td>Height</td>
<td>8.75’</td>
<td>20.75’</td>
<td>29.75’</td>
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<tr>
<td>Power Supply Redundancy</td>
<td>1+1</td>
<td>N+1</td>
<td>N+1</td>
</tr>
</tbody>
</table>

**Purpose-built Feature Set for Demanding Service Provider and Enterprise Networks**

**Superior High Availability**

- **Redundant, hot-swappable management and interface modules** — support for rapid fault detection and fail-over, coupled with hot-swappable interface modules, provide increased reliability and expandability without network down time.

- **Redundant, hot-swappable load-sharing power supplies** — enhances system reliability and circuit redundancy with the ability to mix AC & DC within the same system. The BigIron systems deliver industry-leading redundancy by supporting multiple load sharing power supplies.

- **Link Aggregation based on IEEE 802.3ad** — improves reliability and performance while reducing the operations overhead by dynamically combining up to four 100 Mbps ports together, or up to four 10 Gigabit Ethernet or eight Gigabit Ethernet ports together. Cross module trunks can be created for additional protection while providing a single connection between two switches of up to 40 Gbps of full-duplex bandwidth.
**BigIron 4000, 8000, 15000**

- **Network Level redundancy protocols for Layer 2 and Layer 3 networks** — provide resiliency by having an alternate Big Iron in case of failure from a primary or active device. FSRP, VRRP and VRRPe support Layer 3 redundancy while MRP, VSRP, and RSTP support Layer 2 networks.

**Industry Leading Layer 2 Features**

- **Metro Ring Protocol (MRP)** — Offers an alternative to Spanning Tree based designs and provides sub-second fault detection and fail-over specifically for Metro Ethernet ring topologies. MRP works in conjunction with VSRP and 802.3ad based link aggregation to provide bandwidth scalability and SONET like resiliency in Metro Ethernet networks.

- **Virtual Switch Redundancy Protocol (VSRP)** — Offers an alternative to Spanning Tree based designs and provides sub-second fault detection and fail over protocol for mesh topologies. VSRP works in conjunction with MRP to provide SONET like resiliency required for critical Data Center and Metro Ethernet networks and protects against link or switch failures.

- **Foundry's next generation STP Innovations** — Foundry’s innovative features such as SuperSpan, Rapid STP (802.1w) and PVGST (802.1s) dramatically improve the availability and scalability of spanning tree based networks.
  - **Single-instance STP** — provides a single instance of the STP to run on all the port-based VLANs within a single device, enabling BigIron systems to support third-party devices that run a single STP instance in accordance with the 802.1q specification.
  - **Per VLAN Spanning Tree (PVST)** — allows Metro service providers control over the spanning tree protocol on an individual VLAN basis to provide traffic engineering.
  - **Per VLAN Group STP (PVGST) based on IEEE 802.1s** — allows Metro service providers dramatic improvements in STP and VLAN scalability by servicing up to 4,096 VLANs with 2 to 16 STP or Rapid STP instances. PVGST also provides VLAN load balancing for all 4,096 VLANs for efficient utilization of all fiber in a Metro network.
  - **SuperSpan™** — a unique innovation from Foundry that allows Metro service providers to build very large Layer 2 Metro Ethernet networks while simplifying manageability and network operations. Metro service providers can organize the network into smaller, faster-converging, easy-to-manage standards-based STP domains using SuperSpan.
  - **Rapid Spanning Tree Protocol based on IEEE 802.1w** — Dramatically improves the spanning tree convergence time to a range of 50 milliseconds to 5 seconds by pre-calculating alternate fail-over links prior to a link outage.

- **Super Aggregated VLANs (SAVs)** — allows service providers to decouple the provider VLAN domains from customer VLAN domains. SAVs extend the number of 802.1q based VLANs beyond 4096 by aggregating traffic from multiple VLANs for a single customer into a single provider VLAN. This allows service providers to carry traffic for up to 16 million VLANs in a metro network by serving up to 4096 customers, with each customer using up to 4096 VLANs.

- **High Performance Layer 2 Multicast** — offers efficient handling of multicast traffic in a Layer 2 environment such as Internet exchanges and Metro access networks.
Datasheet

BigIron 4000, 8000, 15000

- **PIM Snooping** - Dramatically improves the performance of multicast applications such as streaming Video in a Layer 2 Metro by optimizing PIM traffic between Layer 3 Multicast devices that otherwise would propagate traffic to all VLAN port members.

- **Internet Group Membership Protocol (IGMP)** - Hardware-based multicast support that forwards only a single copy of a transmission to only the requesting port. Foundry's JetCore ASICs are unique in their ability to recognize and process the multicast join and leave messages embedded in the multicast traffic flows at the port level.

Robust Layer 3 Feature Set

- **Foundry's IronWare Software Suite** — includes advanced Internet strength routing protocols deployed extensively by major ISPs in very large routing environments. BigIron supports the following scalable EGP and IGP protocols:
  - BGPv4
  - OSPF
  - IS-IS

- **Policy Based Routing (PBR)** — provides customized routing decisions based on Source address allowing Metro customers to maintain single configurations while having access to different service offerings such as enhanced security, increased flexibility and access to preferred ISPs.

- **Private VLANs** — allow the service provider increased IP addressing flexibility by partitioning port-based VLANs for security while sharing a common router port.

- **Comprehensive Multicast Feature Set** — provides hardware-based multicast support including DVMRP, MSDP, PIM-SM (Sparse Mode) and PIM-DM (Dense Mode) protocols that allows network managers to efficiently deploy next-generation streaming media applications for improved employee collaboration and productivity.

- **FSRP and VRRP** — enable the BigIron configured as router to act as a backup to other routers in the network. In the event of a router failure, the BigIron will automatically and seamlessly perform the tasks of the failed router.

- **Foundry's VRRP-E (Enhanced VRRP)** — Extends the capabilities of VRRP by providing network managers the convenience of a virtual interface to aid in traditional IP troubleshooting tools to ensure that a default router is actually up and operational.

Dynamic Bandwidth Provisioning and Advanced Quality of Service (QoS)

- **Wire-speed, fine-grain Bandwidth Management** — JetCore ASICs can identify network traffic based on port, port plus priority, or Layer 4 ACLs and enforce bandwidth limits from 256 Kbps to 1 Gbps in increments as little as 256 Kbps. This allows service providers to meet customer SLAs and improve service velocity and provisioning.

- **Advanced QoS** — allows administrators to enforce or change traffic priority based on port, VLAN, Source MAC, ACL, 802.1p, Type of Service (ToS) or DiffServ settings to prioritize business-critical flows.

- **Ultra-low Latency** — industry-leading port-to-port latency of 10 to 20 microseconds for superior call quality when using VoIP and other latency-sensitive traffic such as video.
**DATASHEET**

**BIGIRON 4000, 8000, 15000**

- **Multiple Queuing Methods** — Strict Priority (SP) or Weighted Fair Queuing (WFQ) provides flexibility for network administrators in enforcing traffic prioritization.

**Cohesive, Unified and Easy-To-Use Network Management**

- **Centralized Network Management** — Foundry's IronView Network Manager is a web-based, graphical interface tool that empowers network operators to seamlessly control software and configuration updates for any Foundry product from a central station. This dramatically simplifies network provisioning, diagnostics and resolution, thus reducing the operational expenses.

- **Command Line Interface (CLI)** — is an industry-standard configuration interface, consistent and common throughout Foundry’s entire product portfolio.

- **Web Interface** — provides easy to use Graphical User Interface (GUI) for system configuration from standard Web browsers.

- **sFlow (RFC 3176)** — provides scalable, ASIC-based, wire-speed network monitoring and accounting with no impact on network performance. This allows network operators to gather a variety of sophisticated network statistics and information for capacity planning and real-time network monitoring purposes.

**IronShield™ Security**

- **Wire-speed Extended Access Control Lists (ACL)** — control packet forwarding and restrict access to the system management interface, while providing wire-speed switching and routing:
  - **Feature-Rich ACL Implementation** — Identify traffic based on source or destination IP address, IP protocol type, TCP or UDP port, IP precedence or TOS values.
  - **Selective ACL Logging** — collect statistics for packets matching the deny or permit conditions.
  - **ACL Scalability** — support for up to 4,096 ACLs.
  - **Ease of Administration** — identify an ACL by name or number, or add a comment line for ease of administration.
  - **ACL Syntax Compatibility** — uniform ACL syntax across all Foundry products provides compatibility with syntax of other major vendors.

- **Secure Shell and Secure Copy** — provide secure access to the administration and management interface over the network.

- **Protection Against Denial Of Service (DoS) Attacks** — prevents or minimizes network downtime and protects against malicious users by limiting TCP SYN and ICMP traffic and protects against broadcast storms by limiting broadcast traffic.

- **User Authentication** — authentication with AAA, RADIUS, TACACS, and TACACS+ to prevent unauthorized network access.

- **Wire-speed Rate Limiting** — enforce bandwidth policies to prevent unauthorized network hogging.

- **sFlow (RFC 3176)** — provides cost-effective, scalable, wire-speed network monitoring to detect unusual network activity.
**BigIron 4000, 8000, 15000**

- **SNMPv3** — Secured SNMP management with RFC 2570 through 2575, provides User-Based Security model (RFC 2574) for authentication and privacy services.

**Industry Leading Performance**

- **Industry’s Highest Switching Performance** — non-blocking, distributed switching architecture with a parallel cross-point switch fabric provides up to 480 Gbps of aggregate switching capacity, and 178 million packets per second switching performance.
- **State-of-the-art TCAM** — provides wire-speed Layer 2/3 switching and policy based routing with industry leading switching capacity and scalability.
- **Jumbo Frames** — support for jumbo frames on Gigabit and 10 Gigabit interfaces allows dramatic scalability in server throughput while minimizing the impact on server processing resources.

**Applications**

**Global Ethernet™ Metro Solutions**

**JetCore Based BigIron Systems With 10 Gigabit Ethernet**

With the BigIron systems powered by JetCore modules and Foundry’s IronWare operating system, Metro service providers can build simple, cost-effective Layer 2 and Layer 3 Metro networks to offer high-performance Transparent LAN Services (TLS) and Internet connectivity to enterprise customers. Foundry’s new JetCore based systems, complemented by the current IronCore™ based systems, empower Metro service providers to harness the power of network performance into competitive business advantages by offering profitable high-performance bandwidth services.

In order to provide TLS for point-to-point and multi-point-to-multi-point connectivity, many Metro service providers chose to build Layer 2 Ethernet networks for simplicity, low-cost and VLAN-based security. Foundry’s Global Ethernet metro solutions offer robust scalability and SONET like resiliency and offer a range of metro network design choices with or without Spanning Tree. Foundry’s Spanning Tree based Metro solution includes SuperSpan™, Rapid STP based on 802.1w, Per VLAN Group Spanning Tree (PVGST) based on 802.1s and SAV for STP and VLAN scalability. As an alternative to Spanning Tree, BigIron systems feature Metro Ring Protocol (MRP) for sub-second fail over in ring topologies and VSRP for sub-second fail over in mesh topologies allowing SONET like protection in Metro Ethernet networks.
Dynamic bandwidth provisioning makes it possible for providers to control the amount of bandwidth consumed by any individual customer and manage bandwidth as a commodity. Properly monitoring and accounting the bandwidth is equally important to ensure customer satisfaction with the service. Using sFlow based on RFC 3176, the service provider can accurately monitor the network activity for a given customer and proactively recommend additional bandwidth as needed. Detailed information provided by the built-in per port sFlow collector allows in-depth network analysis.

Industry Leading Solutions For Internet Data Centers

BigIron systems equipped with JetCore modules provide an ideal choice for Internet data centers because of the 10/100, Gigabit and 10 Gigabit Ethernet port density, superior serviceability, high availability, security and advanced Layer 2/3 feature sets. With wire-speed, granular rate limiting, service providers can meter bandwidth and use Foundry's sFlow based on RFC 3176 to provide wire-speed traffic accounting for accurate end-user billing. The BigIron 4000, 8000 and 15000 systems provide an array of purpose-built advanced Layer 2 and Layer 3 features such as Private VLANs, SuperSpan, VRRP, OSPF, IS-IS and a robust feature-rich BGP implementation that scales to hundreds of peers. With the new 16-port Gigabit modules, fiber and 10/100/1000 Copper module, BigIron systems can offer an unprecedented Gigabit port density of up to 232 Gigabit ports in a single system that consumes just 17 rack units enabling cost-effective, high performance Gigabit services and server connectivity. With Foundry's standards-based 10 Gigabit Ethernet modules, service providers can immediately scale the data center backbone and offer 10 Gigabit uplinks from Gigabit aggregation switches connecting to server farms. Foundry BigIron can support a number of different field replaceable optics for its 10 Gigabit Ethernet module to allow high performance connectivity between Internet data centers in different parts of a city with single mode fiber extending up to 40 kilometers.
Technical Specifications

### Technical Specifications

**IEEE Compliance**
- 802.3, 10 BaseT
- 802.3u 100 BaseTX, 100 BaseFX
- 802.3z 1000 BaseSX
- 802.3z 1000 BaseLX
- 802.3ab 1000 BaseT
- 802.3ae 10 Gigabit Ethernet
- 802.3 Flow Control
- 802.3d Link Aggregation
- 802.1p/q VLAN Tagging
- 802.1d Bridging
- 802.1s Per VLAN Group STP
- 802.1w Rapid STP
- 802.3 Ethernet Like MIB
- Repeater MIB
- Ethernet Interface MIB
- SNMP V1, V2c and V3
- SNMP MIB II

**RFC Compliance**

**BGPv4**
- RFC 1771 BGPv4
- RFC 1745 OSPF Interactions
- RFC 1997 Communities & Attributes
- RFC 2439 route flap dampening
- RFC 2796 route reflection
- RFC 1965 BGP4 confederations
- RFC 1269, 2842, 2385

**OSPF**
- RFC 2178 OSPF
- RFC 1583 OSPF v2
- RFC 1587 OSPF NSSA
- RFC 1745 OSPF Interactions
- RFC 1765 OSPF Database Overflow
- RFC 1850 OSPF Traps
- RFC 2154 OSPF w/Digital Signatures (Password, MD-5)
- RFC 2328 OSPF v2
- RFC 1850 OSPF v2 MIB
- RFC 1997 Communities Attributes
- RFC 2385 TCP MD5
- RFC 2439 Route Flap Damping
- RFC 2842 Capabilities Advertisement
- RFC 2918 Route Refresh Capability
- RFC 2370 OSPF Opaque LSA Option

**IS-IS**
- RFC 1195 Routing in TCP/IP and Dual Environments
- RFC 1377 PPP
- RFC 2763 Dynamic Host Name Exchange
- RFC 2966 Domain-wide Prefix Distribution

**RIP**
- RFC 1058 RIP v1
- RFC 1723 RIP v2
- RFC 1812 RIP Requirements

**IP Multicast**
- RFC 1122 Host Extensions
- RFC 1122 DVMRP Host Requirements
- RFC 1256 ICMP Router Discovery Protocol
- RFC 1112 IGMP
- RFC 2236 IGMP v2
- RFC 2362 PIM-SM
- PIM-DM v1
- DVMRP v3-07
- RFC 2336 IGMP v2
- MSDP
- RFC 2283 MBGP

**General Routing Protocols**
- RFC 791 IP
- RFC 792 ICMP
- RFC 793 TCP
- RFC 783 TFTP
- RFC 826 ARP
- RFC 768 UDP
- RFC 894 IP over Ethernet
- RFC 903 RARP
- RFC 906 TFTP Bootstrap
- RFC 1027 Proxy ARP
- RFC 854 TELNET
- RFC 951 BootP
- RFC 1122 Host Requirements
- RFC 1256 IRDP
- RFC 1519 CIDR
- RFC 1542 BootP Extensions
- RFC 1591 DNS (client)
- RFC 1619 PPP over SONET
- RFC 1662 PPP in HDLC-like Framing
- RFC 1812 General Routing
- RFC 1541 and 1542 DHCP
- RFC 2131 BootP/DHCP Helper
- RFC 2338 VRRP

**Others**
- RFC 1354 IP Forwarding MIB
- RFC 1757 RMON Groups 1, 2, 3, 9
- RFC 2068 HTTP
- RFC 2030 SNTP
- RFC 2138 RADIUS
- RFC 3176 sFlow
BigIron 4000, 8000, and 15000

Network Management
- IronView Network Manager (INM) Web based graphical user interface
- Integrated Standard based Command Line Interface (CLI)
- sFlow (RFC 3176)
- Telnet
- SNMP
- RMON HP OpenView for Sun Solaris, HP-UX, IBM’s AIX, and Windows NT

Element Security Options
- AAA
- RADIUS
- Secure Shell (SSH v1)
- Secure Copy (SCP)
- TACACS/TACACS+
- Username/Password (Challenge and Response)
- Bi-level Access Mode (Standard and EXEC Level)
- Protection for Denial of Service attacks, such as TCP SYN or Smurf Attacks

Environmental
- Operating Temperature: 5 °C to 40 °C (41 °F to 104 °F)
- Relative Humidity: 5 to 80%, @40 °C (104 °F), non-condensing

BigIron System Power Specifications

<table>
<thead>
<tr>
<th></th>
<th>BigIron 4000</th>
<th>BigIron 8000</th>
<th>BigIron 8000</th>
<th>BigIron 15000</th>
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<tr>
<td>Power Supply(s)</td>
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<td>-70 to -40 VDC</td>
<td>17A</td>
<td>17A</td>
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<tr>
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<td>8A</td>
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<tr>
<td>Consumption (Amps)</td>
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<tr>
<td>200-240 VAC</td>
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<td>7.5A</td>
<td>15A</td>
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<tr>
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<td>47 – 63 Hz</td>
<td>47 – 63 Hz</td>
<td>47 – 63 Hz</td>
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<td>4552</td>
<td>9000</td>
<td>9000</td>
<td>10,236</td>
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<td>(fully populated)</td>
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BigIron System Physical Specifications

<table>
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<tr>
<th></th>
<th>BigIron 4000</th>
<th>BigIron 8000</th>
<th>BigIron 15000</th>
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</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>8.75&quot;h x 17.5&quot;w x 15&quot;d (22.2 x 44.5 x 38.1 cm)</td>
<td>20.75&quot;h x 17.5&quot;w x 15.25&quot;d (52.7 x 44.5 x 38.7 cm)</td>
<td>29.75&quot;h x 19.0&quot;w x 15.25&quot;d (75.68 x 48.33 x 38.7 cm)</td>
</tr>
<tr>
<td>Weight</td>
<td>60 lbs (29.9 kg)</td>
<td>117 (43.7 kg)</td>
<td>170 lbs (374 kg)</td>
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<tr>
<td>(fully loaded)</td>
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# BigIron 4000, 8000, 15000

## Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>BI4000</td>
<td>4-slot BigIron 4000 Chassis</td>
</tr>
<tr>
<td>BI8000</td>
<td>8-slot BigIron 8000 Chassis</td>
</tr>
<tr>
<td>BI15000</td>
<td>15-slot BigIron 15000 Chassis</td>
</tr>
<tr>
<td>RPS3</td>
<td>90-220VAC Power Supply for BigIron 4000 &amp; BigIron 8000</td>
</tr>
<tr>
<td>RPS3DC</td>
<td>48VDC Power Supply for BigIron 4000 &amp; BigIron 8000</td>
</tr>
<tr>
<td>RPS4</td>
<td>90-220VAC Power Supply for BigIron 15000 only</td>
</tr>
<tr>
<td>RPS4DC</td>
<td>48VDC Power Supply for BigIron 15000 only</td>
</tr>
<tr>
<td>J-BxGMR4</td>
<td>8-port mini-GBIC based Gigabit management module — requires mini-GBICs</td>
</tr>
<tr>
<td>J-B48E</td>
<td>48-port 10/100BaseT RJ-45 interface module (two-slot wide module)</td>
</tr>
<tr>
<td>J-B48T</td>
<td>48-port 10/100BaseT RJ-21 Telco interface module</td>
</tr>
<tr>
<td>J-B16GC</td>
<td>16-port 100/1000BaseT interface module</td>
</tr>
<tr>
<td>J-BxG</td>
<td>8-port mini-GBIC based Gigabit interface module</td>
</tr>
<tr>
<td>J-B16Gx</td>
<td>16-port mini-GBIC based Gigabit interface module</td>
</tr>
<tr>
<td>B10Gx-SR</td>
<td>10 Gigabit Ethernet module with 850nm LAN Optics (up to 300 meters on MMF)</td>
</tr>
<tr>
<td>B10Gx-LR</td>
<td>10 Gigabit Ethernet module with 1310nm LAN Optics (up to 10 km on SMF)</td>
</tr>
<tr>
<td>B10Gx-ER</td>
<td>10 Gigabit Ethernet module with 1510nm LAN Optics (up to 150 km on SMF)</td>
</tr>
<tr>
<td>E1MG-SX</td>
<td>1000Base-SX mini-GBIC optic, MMF, LC connector</td>
</tr>
<tr>
<td>E1MTG-SX</td>
<td>1000Base-SX mini-GBIC optic, MMF, MTRJ connector</td>
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<tr>
<td>E1MG-LX</td>
<td>1000Base-LX mini-GBIC optic, SMF, LC connector</td>
</tr>
<tr>
<td>E1MG-LHA</td>
<td>1000Base-LHA mini-GBIC optic, SMF, LC connector</td>
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<tr>
<td>E10G-SR</td>
<td>850nm optical insert</td>
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<tr>
<td>E10G-LR</td>
<td>1310nm optical insert</td>
</tr>
<tr>
<td>E10G-ER</td>
<td>1550nm optical insert</td>
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</tbody>
</table>

Note: 10 Gigabit Ethernet optic module replacements can only be done through a qualified Foundry service representative.

*sFlow is a registered trademark of InMon Corporation.*

Specifications are subject to change without notice.

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