

# BA 2200 Series Managed Enterprise Edge Router



BA Systems, one amongst the Top 3 router manufacturers with market share in India, unleashes a Series of Enterprise Edge Routers with the power of enabling next generation Managed Services and many last mile connectivity options. The BA 2200 Series of Managed Routers are now available in 3 versions: BA 2000, BA 2031, BA 2051. Multiple WAN connectivity option includes 10/100/1000, V.35 Serial, ISDN BRI & T1/E1 interfaces.

The BA Series routers from BA Systems exhibit four key characteristics that, working together, deliver a true enterprise managed routing solution. The result is a robust, time-tested and highly reliable network infrastructure solution with high-performance for businesses.

**Carrier-Class Reliability:** Leveraging a combination of optimized hardware and software – the BA System OS (BOS) and BA Systems Element and Services Management Supervisor (BESS) - the BA 2200 Series routers are available in 3 variants which offer time-tested and highly reliable network infrastructure solutions for enterprises and SMEs. They provide an unparalleled level of integration of networking features such as Stateful firewall, IP Security, VPN and QoS all rolled up in a single Managed Edge device.

**Software Advantage:** The BA Series run on a common operating system across all products, thereby reducing training as well as maintenance and management overheads. Unlike monolithic operating systems which require a full system restart, the BOS' modular architecture enhances fault tolerance and offers independent graceful restart without impacting the rest of the system.

The unified management application BESS extends support to include system level fault configuration, remote management and monitors network performance. The Point-Click-Enable™ feature of BESS empowers the user to point and click to configure, monitor and troubleshoot switches, routers, firewalls and intrusion detection products, anywhere on the network, providing a complete consolidated view of network operations.

**Application Control:** The BA 2200 Series empowers any business to implement IP networking services with minimal disruption and maximal remote control from a central location. The modular and multi-threaded design of BOS working in tandem with the EN 3500 core router provides for best in class performance, both raw and with multiple services loaded.

**Reduced TCO:** The BA 2200 core router provides the world's best performance/price ratio line of enterprise routers, with open interfaces, offering customers service creation ability and ease of management. The BESS software and the modular BOS are innovative technologies that help enterprises grow incrementally, innovate with technologies and gain a competitive edge thus saving time, money and providing greater freedom for businesses to focus on their core business, and less on their network infrastructure. With best performance/price ratio in its class, the BA 2200 Series is a clear winner.

SOFTWARE SPECIFICATIONS*		
<b>Unicast Routing Features</b> <ul style="list-style-type: none"> <li>• RIP v1 and v2</li> <li>• OSPF v2</li> <li>• Static Routes</li> <li>• ECMP</li> <li>• Redistribution</li> <li>• BGP</li> </ul>	<b>QoS Features</b> <ul style="list-style-type: none"> <li>• Policing and Shaping</li> <li>• Priority Queuing</li> <li>• Class Based Queuing</li> <li>• Flow Based Queuing</li> <li>• Selective Drop</li> <li>• Rate Limiting</li> <li>• RED, WFQ, ECN</li> <li>• Time-based QoS</li> </ul>	<b>Encapsulation</b> <ul style="list-style-type: none"> <li>• Ethernet</li> <li>• 802.1Q</li> <li>• PPP</li> <li>• HDLC</li> <li>• MLPPP</li> </ul>
<b>VPN Features</b> <ul style="list-style-type: none"> <li>• IP Sec (Pre-shared key)</li> <li>• Site to Site and Remote Access Support</li> <li>• NAT Traversal</li> <li>• DES, 3DES, AES, SHA-1, RSA, MD5</li> <li>• GRE, L2TP</li> <li>• 50 VPN Tunnels</li> </ul>	<b>Security Features</b> <ul style="list-style-type: none"> <li>• ACLs (Standard, Extended)</li> <li>• Time-based ACL support</li> <li>• Stateful Firewall</li> <li>• NAT and PAT</li> <li>• Failover support</li> <li>• AAA Support using RADIUS/TACAS+</li> <li>• IP accounting</li> </ul>	<b>Redundancy Features</b> <ul style="list-style-type: none"> <li>• VRRP</li> <li>• Graceful Restart</li> <li>• Redundant Interface</li> <li>• Dual Software Images and Configuration Files</li> <li>• Safe config rollback</li> </ul>
<b>IP Addressing</b> <ul style="list-style-type: none"> <li>• Static</li> <li>• DHCP Relay</li> <li>• DHCP Client, Server</li> </ul>	<b>Multicast Routing Features</b> <ul style="list-style-type: none"> <li>• IGMP v2 and v3</li> <li>• PIM (SM, SSM)</li> </ul>	<b>Management Features</b> <ul style="list-style-type: none"> <li>• CLI (through console/ telnet/ ssh)</li> <li>• Minimal Touch Deployment TM and configurator tool</li> <li>• GUI</li> <li>• SNMP</li> <li>• SLA Monitoring</li> </ul>
<b>Content Filtering</b> <ul style="list-style-type: none"> <li>• URL Filtering</li> <li>• Keyword Filtering</li> <li>• Domain Filtering</li> </ul>	<b>Intrusion Detection and Prevention</b> <ul style="list-style-type: none"> <li>• TCP and IP Reassembly</li> <li>• Network Attack Detection</li> <li>• Dos/DDos Protection</li> </ul>	<b>Logging Features</b> <ul style="list-style-type: none"> <li>• Syslog</li> </ul>

PLATFORM SPECIFICATIONS*	BA 2000	BA 2031	BA 2051
10/100/1000 Gigabit Ethernet ports	4	4	4
Serial V.35 ports		1	
ISDN BRI ports		1	1
E1/T1 ports			1
USB ports	2	2	2
Aux ports	1	1	1
Console ports	1	1	1
Throughput	120 Kpps	120 Kpps	120 Kpps
Flash Memory	256 MB / 1 GB	256 MB / 1 GB	256 MB / 1 GB
RAM	512 MB / 2 GB	512 MB / 2 GB	512 MB / 2 GB
Rackmountable	Yes		
Dimensions	(H x W x D) => 1.75 x 17.5 x 12.25 (in inches); Weight => 5-6 Kg. (approximately)		
Power	AC input power: 100-240 Volts, auto range, 50-60Hz, 160W		
Environmental	Operating temperature: 0°C to 50°C Non-operating temperature: -40°C to 70°C Operating humidity: 5-90% non condensing		

\* Software and Platform Specifications subject to change.

For business enquiries, please contact: [info@ba-sys.com](mailto:info@ba-sys.com)

BA Systems Inc. | 1270, Oakmead Parkway, # 215 | Sunnyvale, CA 94085 USA | Tel : +1 408-245-6800 | [www.ba-sys.com](http://www.ba-sys.com)

BA Systems India | 2nd Floor, Janardhan Towers, Bannerghatta Road, Bangalore 560 076 INDIA | Tel: +91 80 4110 9735 | Fax: +91 80 41107596