

BlueFire™ Management

IP Switching Family

The NEC BlueFire IP switching family continues NEC's commitment to technology innovation and fully open telecommunication solutions. As part of this open technology platform, the management offering for the BlueFire products includes many industry standard features:

Common Industry Command Line Interface

This user configuration and monitoring interface offers a very intuitive and standard approach to device management through the command port. Similar commands are grouped by functional and

operational features rather than by types. This simplifies the configuration of device ports and all of the associated services or the provisioning of system wide applications and protocol stacks. The BlueFire Command Line Interface (CLI) will ensure ease of integration into already existing networking applications. Some of the BlueFire CLI major features are:

- Full display and configuration of routing and switching interfaces and functions with smart user-assist command structures
- Full security control for user access and command history logs
- Detailed alarm, statistics and debug controls

SNMP Management

The BlueFire products offer many standard SNMP MIB based management interface capabilities. Network Management Systems can discover and properly monitor the configuration, performance, alarms and various device statistics. This allows seamless integration of the BlueFire solutions into legacy networks.

Management of BlueFire IP switching and routing solutions is simplified and offers greater control over inter-networking functions and applications. This full management support from NEC assures reliable integration of BlueFire products in open network solutions.



BlueFire Products

Features

BLUEFIRE IP SWITCHING FAMILY

- Industry-standard command line interface
- Full configure and monitor features via serial RS232 port
- Full software configuration and statistics management via TFTP
- Smart User-Assist configuration command structures
- Complete compatibility with industry-standard SNMP management stations
- Comprehensive alert management via enterprise and generic trap reporting
- Easy integration into NMS architectures
- RMON probe capabilities for statistics, history, alarm and event

Management Interfaces Supported

Interface	Available Services	Configuration/Monitoring
RS-232	CLI	Full
Ethernet	CLI via Telenet SNMP TFTP for configuration and software management	Full Monitor and Configure

System Parameters

CLI: Show, configure all switching and routing functions. Debug and analyze device and data streams.
Secure and control CLI access with history and user management.

SNMP: Support monitoring and configuration for:

RFC 1213	MIB-II	RFC 1643	Ethernet MIB
RFC 1493	Bridge MIB	RFC 1573	Evolution of the Interfaces Group of MIB-II
RFC 1757	RMON MIB	RFC 1724	RIPv2 MIB Extension
RFC 1850	OSPF MIB	RFC 2096	IP Forwarding Table MIB
Enterprise MIB		RFC 2460	IPv6 Address Configuration
RFC 2526	IPv6 Anycast Address Assignment	RFC 2374	IPv6 Global Unicast Address Assignment
RFC 2375	IPv6 Multicast Address Assignment	RFC 2461	IPv6 Neighbor Discovery
RFC 2462	IPv6 Stateless Auto Configuration	RFC 2874	IPv6 Domain Name Services Extension
RFC 2464	IPv6 over Ethernet 10Mb/s, 100Mb/s	RFC 2472	IPv6 over PPP on Serial Link
RFC 2492	IPv6 over ATM PVC	RFC 2080	RIPv6
RFC 2545	Multi-protocol extensions for BGP4	RFC 2740	OSPFv6
RFC 2466	ICMPv6	RFC 1933	IPv6-to-IPv4 Address Mappings

To find out more about BlueFire products or to inquire about NEC's powerful and versatile technology platforms, visit our website at www.cng.nec.com

