

## Korenix JetNet PoE Switch- JetNet 4706 SOFTWARE RELEASE Notes

### Before Upgrade

Before you use the Switch firmware, please ensure that you know the product number and use the correct firmware version. By reading the file, you can know the new feature and changes, the fixed bugs and the restrictions. You can find the latest firmware in the Korenix web site, <http://www.korenix.com> or get the help from Korenix Customer Support, [Korecare@korenix.com](mailto:Korecare@korenix.com).

### About This Software Version

The version number and the release date.

Firmware Version	Boot Loader Version	Release Date	Note
V 1.0	V1.6.4.0	17-July-2007	Official release
V 2.1	V1.6.4.3	16-Apr-2008	Official release
V2.3	V1.6.4.5	6-DEC,2009	Official Release
V2.3a	V1.6.4.5	Jun,2011	Official release

**CAUTION:** You can only update the correct firmware to the JetNet switches. Ensure the product model number before you start updating. If the version of Boot Loader is not match with JetNet4706 then upgrade firmware first then Boot Loader, ensure the power state is stable during the upgrade.

#### **Important!**

Upgrade firmware shall follow the following sequence:

- First, upgrade firmware by JetView
- Second, upgrade Boot loader by JetView

After Boot loader upgrade finished, it will auto restart system to enable new functions.

### New Changes and Improvement:

The following change applies to firmware version 2.3a:

- Fix fault reply wrong action issue when the trigger event sets to port link event and the relay will active with wrong port link status.

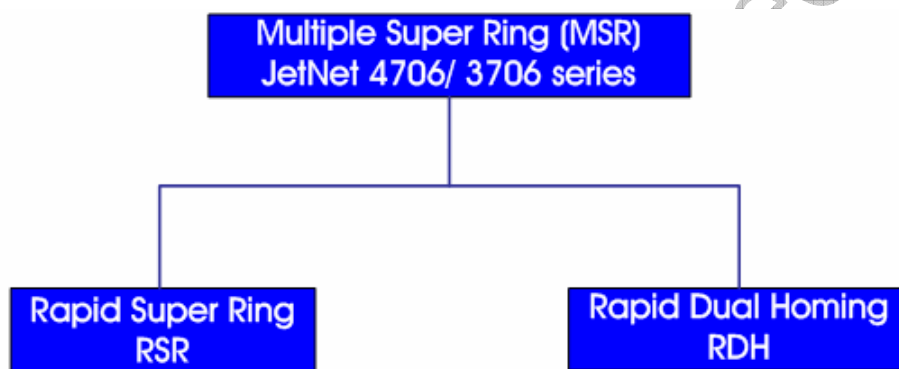
The following changes apply to the version v 2.3:

- Clone of JetNet4706-v2.2.10

- Add DHCP Option 82 (DHCP relay) function
- Add IEEE 802.1AB LLDP function
- Fix the firmware upgrade bug on some EN29LV649H flash (Commercial Grade)
- add relay function that the failure of Power 1 or 2 cause alarm in CLI mode
- Change \$PROMPT to 'switch#'
- Change administrator password length from 8 to 32 characters. (Username length is the same. (20 characters))

**The following changes apply to the version v 2.1:**

- Support Multiple Super Ring function (M.S.R.) which include enhanced Rapid Super Ring (R.S.R.) and Rapid Dual Homing (R.D.H.) functions. The following diagram show the support features.



1. Backward compatible with Super Ring
2. Failover time < 5ms (copper port)
3. Restore time = 0ms
4. Change R.M. when ring recovery.

1. No extra control link.
2. Multiple backup path.
3. Multiple Node to Node backup path
4. Enhance Recovery Time 50~100ms
5. Maximum 4 uplink.

- Provide new Web user interface for redundant ring
- Supports Internet Group Multicast Protocol (IGMP) version for snooping.
- Provides boot loader information in command line interface (CLI) mode and JetView (Version 1.3 above)
- Power over Ethernet (PoE) Forced Mode powering function with user defined power consumption control.
- Support PoE self diagnostic function in JetView windows utility (supported in JetView version 1.3 above).
- Change SNMP object ID from 1.3.6.1.4.1.24062.2.1.3 to 1.3.6.1.4.1.24062.2.3.2
- Support system configuration file recovery function in JetView utility (supported in JetView version 1.3 above)
- Add Daylight saving time function
- Add device front panel display function in Web interface.

**The following changes apply to the version 1.0:**

- Support full functions of IGMP V1 & IGMP V2 (ex. Query Interval · Query Maximum Response Time).
- Change the reaction time of power mode to 20ms
- Support private MIB for DHCP
- Support JetView V1.0

**Fixes for Known Faults****The following fixes apply to version v 2.3**

- Fix 2 device with different version of IGMP protocol will cause Querier elect failure issue. (# 145).
- Fix link with Cisco switch will cause forwarding loop issue.( #160)
- Fix MAC table won't update issue when port link down. (#167).
- Fix hostname over 16 characters will cause system reboot when show running configuration. ( #174).
- Fix IGMP leaving issue.( #198,199)
- Fix PSE reset remote PD issue.(#204).
- Fix Redundant Ring wrong display issue.(#220)
- Fix multicast filtering function will filter RSTP control packet issue.(#222)
- Fix multicasting data flooding issue.( #225)
- Fix RSTP blocking port will be changed to forwarding mode when enabled IGMP protocol. ( #233)
- Fix IGMP leave issue.( #235)

**The following fixes apply to version v 2.1**

- Fix IP configure issue by JetView utility.
- Fix RSTP look-back issue when 2 ports link together will cause both of port change to forwarding mode.
- Fix RSTP configure issue in Web interface for the following parameters: max-age, hello time, forwarding delay.
- Fix PoE power budget limiting issue when set to '15.06', the value will become '15.6'.
- Fix Private MIB issue for Ring port ID change.
- Remove and fix VLAN IGMP snooping function from Web interface.
- Fix unicast mac table can't be modify from Web interface.
- Fix NTP issue when it configured primary and secondary server with same IP address will cause different message shows in command line interface (CLI mode).
- Fix RSTP share link issue when 2 port link to one Ethernet hub.

- Fix link partner line detection (LPLD) function issue, when the detect cycle time is not tenfold will cause target IP address change to empty.
- Correct misspellings issue of help information in Web interface.

#### The following fixes apply to version v 1.0

- Fix multicast packets flooding issue when IGMP snooping enabled.
- Fix JetView firmware upgrades fail, when a lot of one is upgraded
- Remove the web interface of IGMP query

#### Known Restrictions or Limitation

- There is IP IGMP snooping issue when the device (ip igmp snooping function disable) received report packet, the system will update the multicasting address table without forwarding port number and caused multicasting packet can't forward. (#239)
- Boot loader v1.6.4.3 should use firmware 2.1 or above.
- There are some problems to ping the IGMP Querier through another JN4506 (bug# 195).
- It can't work properly that joining two different ip multicast groups map to the same multicast mac address to a non-Querier device. (bug# 200).
- After multicast filter enable, the join can't be success if sending the same destination stream at the same time. (the DA of IGMP data and query are the same) (bug# 223).
- Commanding "show mac-address-table multicast" can see the joined multicast group but not in command "show mac-address-table". (bug# 224).
- When JN5428G Ring mix with a JN4006 and NodeUp JN5428 RDH port in Attach topology will cause Loop continually. (bug# 234).
- Node up recovery time is over 30 seconds (bug# 140).
- After link down and link up one of ring ports, it'll not become the blocking port. It causes link up recovery time over 0 seconds (bug# 141).
- Topology a cause's node down recovery time over 1 sec (bug # 163).
- Topology c causes 1 duplicate package when link down the forwarding port (bug # 164).
- Firmware can't down-grade to v1 (bug# 168).