

**AS6701-32X**  
**Data Center Switch**  
**Release Note Version 2014.08.00.08-2014.11.14.00**

**1.0 Introduction**

AS6701-32X consists of 20 10/40G Ethernet ports and 2 6x40GbE QSFP+ expansion modules. The dimensions of the AS6701-32X are 1 RU high, 17.1 inches deep and 17.3 inches wide. AS6701-32X includes two AC or DC load-sharing, 1+1 redundant power supplies, and five fan-tray modules. The power supplies and fan module are hot swappable Field Replaceable Units. Both the power supplies and the fan-tray module are available in front-to-back or back-to-front SKUs. The switch can be managed either by in-band management via the network remotely, or out-of-band management via the console port or Ethernet management port (both RJ45) locally.

**2.0 Release Content**

1. **ONIE Installer Ver. 2014.08.00.13, 2014/11/04**
2. **Bootloader Ver. 1.4.0.10, 2014/11/04**
3. **Diagnostic Ver. 1.4.0.6, 2014/09/03**
4. **sys\_eerom Ver. 3, 2014/11/04**

**3.0 Test Completion**

1. **Engineering Integration Tests (EIT)**  
1> **EIT Completed on 2014/09/03**
2. **NTC Tests**  
1> **NA**

**4.0 Software/Firmware Fixes, Changes, and Enhancements**

The \* mark indicates engineering items.

**1. ONIE Installer****Ver. 2014.08.00.13, 2014/11/04**

1	ONIE updater writes the value of "0x29 ONIE Version" in sys_eeprom, and "ver" in uboot environment during updating process.
2	Supports kernel module insertion

**Ver. 2014.08.00.08, 2014/09/29**

1	Increased the expire time for management port negotiation to 10 seconds
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**Ver. 2014.08.00.05, 2014/09/03**

1	Upgraded to ONIE v2014.08
2	Changed to use the standard naming in machine.conf: onie_platform=powerpc-accton_as6701_32x-r0, onie_machine=accton_as6701_32x
3	Made the v2014.08.00.05 updater flexible to allow to update from the pre-v1.6.1.4 with old onie_platform "powerpc-as6701_32x-r0" and the post-v2014.08 with new onie_platform "powerpc-accton_as6701_32x-r0"

**Ver. 1.6.1.4, 2014/04/10**

1	Removed the protection from writing to uboot to make updater work
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**Ver. 1.6.1.3, 2014/01/23:**

1	Fixed ssh root password requested issue, by changing to "USE_GLIBC = N" in machine.make to use uclibc instead of glibc
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**Ver. 1.6.1.2, 2014/01/22**

1*	Fixed most of the warning messages while ONIE boot up
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**Ver. 1.6.1.1, 2014/01/21**

1	Removed the unused ethernet interfaces, only eth0 left for management port
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**Ver. 1.6.1.1, 2014/01/13**

1	Initial version
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**2. Bootloader****Ver. 1.4.0.10, 2014/11/14**

1	Enhanced in the u-boot built with ONIE 2014.08.00.12: Accton powerpc platforms: Sync u-boot environment to latest code.
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**Ver. 1.4.0.9, 2014/09/03**

1	Changed the default value of environment variables, platform=accton_as6701_32x and onie_platform=powerpc-accton_as6701_32x-r0, to be consistent with ONIE v2014.08.
2*	Set i2c speed to 100khz

**Ver. 1.4.0.8, 2014/05/28**

1	Changed the default of onie_platform to "powerpc-as6701_32x-r0" to be consistent with ONIE.
2*	Adjusted FAN LED lighting red threshold to 0x35 (around 3628 RPM)

**Ver. 1.4.0.6, 2014/03/31**

1*	Added QSFP module present checking and reset if module is present.
2*	Set Alarm LED and Sys LED to light green if no error is caught.

**Ver. 1.4.0.5, 2014/02/14**

1*	Added CPLD setting for MAC voltage.
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**Ver. 1.4.0.4, 2014/01/29**

1	Added usbiddev command
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**Ver. 1.4.0.3, 2014/01/21**

1*	Removed unused ethernet address environment variable, eth1addr
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**Ver. 1.4.0.2, 2014/01/17**

1*	correct default values of uboot environment variables
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**Ver. 1.4.0.1, 2014/01/03**

1	Initial version
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**3. Diagnostic****Ver. 1.4.0.6, 2014/05/07**

1	Fixed RTC in device tree.
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**Ver. 1.4.0.5, 2014/03/31**

1*	Added QSFP module present test item.
2*	Enabled RTC kernel config and modify dts.

**Ver. 1.4.0.4, 2014/03/31**

1*	Added management port single loopback test
2*	Added burn-in error log
3*	Added i2c IO expander test item, "test m 10010090"
4*	Updated device tree
5*	Added CPLD upgrade via i2c interface

**Ver. 1.4.0.1, 2014/01/13**

1	Initial version
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**4. sys\_eeprom**

**Ver. 3, 2014/11/14**

1	Added "0x28 Manufacturer=Accton", "0x2C Country Code=TW", "0x2D Vendor Name=Edgecore" and "0x2E Diag Version"
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**Ver. 2, 2014/09/04**

1	Changed 0x28 Platform Name from "powerpc-as6701_32x-r0" to "powerpc-accton_as6701_32x-r0"
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**Ver. 1, 2014/01/13**

1	Initial version
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**5.0 Known Limitations & Workarounds**

None