

AS5610-52X
Data Center Switch
Release Note Version 2014.08.00.13-2014.11.14.00

1.0 Introduction

AS5610-52X consists of 48 10G SFP+ ports and 4 40GbE QSFP+ ports. The dimensions of the AS5610-52X are 1 RU high, 438.4 mm wide and 473mm deep. AS5610-52X includes two AC or DC load-sharing, 1+1 redundant power supplies, and one fan-tray module with integral 3+1 redundant fans. 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 ports (both RJ45) locally.

2.0 Release Content

1. **ONIE Installer Ver. 2014.08.00.13, 2014/11/14**
2. **Bootloader Ver. 3.0.3.7, 2014/11/14**
3. **Diagnostic Ver. 0.0.0.12, 2014/10/08**
4. **sys_eerom Ver. 3, 2014/11/14**

3.0 Test Completion

1. **Engineering Integration Tests (EIT)**
1> **EIT Completed on 2014/09/29**
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, 2014/11/14**

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, 2014/09/11

1	Upgraded to ONIE v2014.08
2	Changed to use the standard naming in machine.conf: onie_platform changed to powerpc-accton_as5610_52x-r0 from powerpc-as5610_52x onie_machine changed to accton_as5610_52x from as5610_52x
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-as5610_52x” and the post-v2014.08 with new onie_platform “powerpc-accton_as5610_52x-r0”

Ver. 2014.08.00.04, 2014/08/15

1*	Upgraded to ONIE v2014.08, onie_platform=powerpc-accton_as5610_52x-r0, onie_machine=accton_as5610_52x
2*	This version was built for internal ONIE certification test
3	Removed mkfs.ext3 from ONIE for image size concern. mkfs.ext3, if needed, should be loaded in the switch software installer.

Ver. 1.6.1.4, 2013/11/11

1	Added ONIE updater that accepts three different machine names, accton_5652, es5652bt2-flf-zz, and as5610_52x
2*	Bug fix: ONIE still fetches the default installer filenames even DHCP option 66 and 67 are provided
3*	Bug fix: ONIE still fetches the default installer filenames even DHCP option 150 and 67 are provided

Ver. 1.6.1.3, 2013/10/17:

1	Added mkfs.ext2
2*	change MACHINE to as5610_52x, no VENDOR_REV

Ver. 1.6.1.0, 2013/10/04

1	Initial version
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2. Bootloader**Ver. 3.0.3.7, 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. 3.0.3.6, 2014/03/20

1	Changed the default value of environment variables, platform=accton_as5610_52x and onie_platform=powerpc-accton_as5610_52x-r0, to be consistent with ONIE v2014.08.
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Ver. 3.0.3.5, 2014/03/20

1	Diag LED to light green if no error caught
2*	Fixed "Waiting for D_INIT timeout. Memory may not work" message

Ver. 3.0.3.4, 2013/12/09

1	Changed default of uboot environment: adding "platform" automatically in uboot environment if it does not exist
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Ver. 3.0.3.3, 2013/11/27

1	Changed environment variable "platform" to value as5610_52x
2	Changed the default fan speed to full speed
3*	Updated the value of environment variable "ver" to flash
4*	Fine tuned the speed of accessing external USB to be compatible with more USB disks to read big files

Ver. 3.0.3.0, 2013/10/15

1*	Added DRAM test command for production test purpose
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Ver. 3.0.2.0, 2013/10/02

1*	Corrected output message: ES5652BT1 to ES5652BT2
2*	Fixed DDR output message

Ver. 3.0.0.0, 2013/09/25

1	Initial version
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3. Diagnostic**Ver. 0.0.0.12, 2014/10/08**

1	Fixed Diag version number display in v0.0.0.11
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Ver. 0.0.0.11, 2014/10/06

1	Added test items, test m 20160100: to check USB controller firmware version and date test m 20160200: to set NAND type to "Hard Disk"
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Ver. 0.0.0.10, 2014/06/11

1	Applied the new rc.soc
2*	Applied the new burn-in loopback traffic test criteria
3*	Fixed burn-in bug: port loopback OK but reported error.

Ver. 0.0.0.9, 2014/04/09

1	Improved the burn-in error log
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Ver. 0.0.0.7, 2013/12/06

1*	judged PSU air flow by reading EEPROM "4M1" as front to back and "4M2" as back to front
2*	Removed fan test from burnin.

Ver. 0.0.0.6, 2013/11/29

1*	Corrected PSU test
2*	Implemented for 40G single loopback burnin test: adding 40G specific setting in the rc.soc that is only used when Diag enters burnin mode.

Ver. 0.0.0.5, 2013/11/11

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, 2014/09/11

1	Added 0x28 Platform Name "powerpc-accton_as5710_52x-r0"
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Ver. 1, 2014/01/13

1	Initial version
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5.0 Known Limitations & Workarounds

None