AS5610-52X
Data Center Switch
Release Note Version 2016.08.00.02-2016.09.19.00

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. 2016.08.00.02, 2016/09/19**
2. **Bootloader Ver. 3.0.3.13, 2016/09/19**
3. **Diagnostic Ver. 1.0.0.0, 2015/01/29**
4. **sys_eerom Ver. 3, 2014/11/14**

3.0 Test Completion

1. **Engineering Integration Tests (EIT)**
   1> EIT Completed on 2016/09/13

2. **NTC Tests**
   1> NA

4.0 Software/Firmware Fixes, Changes, and Enhancements

*The * mark indicates engineering items.*

1. ONIE Installer

Ver. 2015.05.00.06, 2016/09/19

1	First version of ONIE v2016.08; uboot was modified.

Ver. 2015.05.00.06, 2015/11/03

1	First version of ONIE v2015.05

Ver. 2015.02.00.05, 2015/06/05

1	First version of ONIE v2015.02

Ver. 2014.11.00.03, 2015/01/21

1	First version of ONIE v2014.11
2	Added enhancement to erase mass storage in uninstall mode
3	Removed mkfs.ext3 from ONIE due to the size of the ONIE version

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

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

2. Bootloader

Ver. 3.0.3.13, 2016/09/19

1	Optimized DDR parameter settings
2	For ONIE v2016.08.00.02 build

Ver. 3.0.3.12, 2015/11/03

1	For ONIE v2015.05.00.06 build.

Ver. 3.0.3.11, 2015/06/05

1	For ONIE v2015.02.00.05 build.

Ver. 3.0.3.10, 2015/03/05

1	For ONIE v2014.11.00.04 build.

Ver. 3.0.3.9, 2015/01/21

1	For ONIE v2014.11.00.03 build.

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.

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.

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

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

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

3. Diagnostic

Ver. 1.0.0.0, 2015/01/29

1	Adjusted the burn-in test items

Ver. 0.0.0.13, 2015/01/29

1	Added mkfs.ext3 to Diag installer for the command removal from ONIE v2014.11.

Ver. 0.0.0.12, 2014/10/08

1	Fixed Diag version number display in v0.0.0.11

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"

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

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

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"

Ver. 2, 2014/09/11

1	Added 0x28 Platform Name "powerpc-accton_as5710_52x-r0"

Ver. 1, 2014/01/13

1	Initial version

5.0 Known Limitations & Workarounds

Because the onie_platform string was modified since v2014.08, there is no support for direct upgrade from the old v1.6.1 to versions later than v2014.08. Please use v2014.08 as intermediate version and upgrade to v2014.08 before further upgrade.