

**AS5710-54X**  
**Data Center Switch**  
**Release Note Version 2014.08.00.13-2014.11.20.00**

### 1.0 Introduction

AS5710-54X consists of 48 10G Ethernet ports and 6 40GbE QSFP Ethernet ports. The dimensions of the AS5710-54X are 1 RU high, 17.1 inches deep and 17.3 inches wide. AS5710-54X 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 port-to-power or power-to-port 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, 2014/11/12**
2. **Bootloader Ver. 1.4.0.5, 2014/11/12**
3. **Diagnostic Ver. 1.5.0.0, 2014/10/30**

### 3.0 Test Completion

1. **Engineering Integration Tests (EIT)**  
1> EIT Completed on 2014/11/12
2. **NTC Tests**  
1> NTC Completed on 2014/11/20

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

*The \* mark indicates engineering items.*

#### 1. ONIE Installer

##### Ver. 2014.08.00.13, 2014/11/12

1	Changed in 2014.08.00.11: onie-syseeprom: Get erase length of MTD device from kernel. Accton powerpc platforms: Remove erase size config from busybox.
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##### Ver. 2014.08.00.10, 2014/10/29

1	Added support for inserting kernel modules for updaters and installers running on 2014.08.00.10 or later, to do CPLD update.
2	Added support for writing "sys_eeprom" for updaters and installers running on 2014.08.00.10 or later, to update "sys_eeprom". Also, implemented (starting from 2014.08.00.10) actually updating "sys_eeprom" when running on ONIE which supports

	doing this (2014.08.00.10). This means that if you are running 2014.08.00.08, you need to update first to 2014.08.00.10 to support writing “sys_eeprom”, and then, while running ONIE 2014.08.00.10, run the <i>installer</i> for 2014.08.00.10 again to actually update the “sys_eeprom”.
3	Changed all partitions to read/write, so that, in the future, e.g., RCW may be updated via ONIE.

**Ver. 2014.08.00.08, 2014/09/25**

1	Increased the time-out when ONIE starts when waiting for autonegotiation of the management port.
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**Ver. 2014.08.00.05, 2014/09/02**

1	Upgraded to ONIE v2014.08.
2	Changed to use the standard naming in /etc/machine.conf: onie_platform=powerpc-accton_as5710_54t-r0 onie_machine=accton_as5710_54t
3	Made the v2014.08.00.05 updater flexible to allow to update from the v1.6.1.6 or earlier with old onie_platform “powerpc-as5710_54x-r0” and the v2014.08 with new onie_platform “powerpc-accton_as5710_54x-r0”.

**Ver. 1.6.1.6, 2014/07/30**

1	When ping management port with subnet broadcast (e.g. 192.168.3.255), then do reboot from ONIE, sometimes exception will happen. Fixed by upgrading to Freescale SDK to 1.5.
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**Ver. 1.6.1.1, 2014/04/02**

1*	First release. Please refer to <a href="http://opencomputeproject.github.io/onie/docs/design-spec/">http://opencomputeproject.github.io/onie/docs/design-spec/</a>
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**2. Bootloader****Ver. 1.4.0.5, 2014/11/12**

1	Enhanced in the u-boot built with ONIE 2014.08.00.12: u-boot sys_eeprom: Initialize ethaddr in uboot-env. Accton powerpc platforms: Sync u-boot sys_eeprom to latest code.
2	Fixed in the u-boot built with ONIE 2014.08.00.13: u-boot: Building in LC_ALL=en_US.UTF8 env will lost commands. This is an update in the source code and fixes the compilation in some environments. There is no change in the u-boot executable in our distribution.

**Ver. 1.4.0.4, 2014/10/29**

1	Corrected CONFIG_USB_MAX_CONTROLLER_COUNT to 2, so that, e.g. “fatload” and “ext2ls” on USB flash are supported.
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**Ver. 1.4.0.3, 2014/09/02**

1	Changed the default value of environment variables to be consistent with ONIE v2014.08: platform=accton_as5710_54x onie_platform=powerpc-accton_as5710_54x-r0
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**Ver. 1.4.0.2, 2014/04/02**

1	Fix Diag LED issue
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### 3. Diagnostic

#### Ver. 1.5.0.0, 2014/10/30

1	For LED: in 40G speed light led on the cage only, in 10G speed light led on the break out led only.
2	For SFP TX_Disable and QSFP Reset: write TX_Disable and QSFP Reset off by default. CPLD2[0xC] = 0 CPLD2[0xD] = 0 CPLD2[0xE] = 0 CPLD3[0xC] = 0 CPLD3[0xD] = 0 CPLD3[0xE] = 0 CPLD3[0x15] = 0x3F
3	For Linux kernel: Change prompt display to “as5710_54x”.

#### Ver. 1.4.0.1-r18, 2014/08/13

1	QSFP ports re-numbering
2	Adjust read SFP ports transceiver EEPROM delay time

### 4. sys\_eeprom

#### Ver. 12, 2014/11/12

1	Changed “0x29 ONIE Version” from “2014.08.00.10” to “2014.08.00.13”.
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#### Ver. 11, 2014/10/31

1	Changed “0x2E Diag Version” from “1.4.0.1-r18” to “1.5.0.0”.
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#### Ver. 9, 2014/10/29

1	Changed 0x29 ONIE version from “2014.08.00.05” to “2014.08.00.08”.
2	Changed the “0x2E Diag Version” from “1.4.0.1” to “1.4.0.1-r18”, as was discussed in the port-mapping rework meeting.
3	Added default values for “0x23 Serial Number”, “0x25 Manufacture Date”, and updated the default value for “0x27 Label Revision”. These will be overwritten during Production Test anyway.

#### Ver. 6, 2014/09/26

1	Changed 0x29 ONIE version from “2014.08.00.05” to “2014.08.00.08”.
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#### Ver. 2, 2014/09/09

1	Changed 0x28 Platform Name from “powerpc-as5710_54x-r0” to “powerpc-accton_as5710_54x-r0”.
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#### Ver. 1, 2013/11/04

1	Initial version.
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## 5. RCW

**Ver. 1, 2013/09/26**

1	Initial version
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### 5.0 Known Limitations & Workarounds

None