

**AS5712-54X**  
**Data Center Switch**  
**Release Note Version 2014.08.00.05-2014.09.05.00**

**1.0 Introduction**

AS5712-54X consists of 48 10G Ethernet ports and 6 40GbE QSFP Ethernet ports. The dimensions of the AS5712-54X are 1 RU high, 17.1 inches deep and 17.3 inches wide. AS5712-54X 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. 2014.08.00.05, 2014/09/02**
2. **BIOS Ver. A010707, 2014/07/07**
3. **Diagnostic Ver. 1.0.1.0, 2014/09/03**
4. **sys\_eeprom Ver. 1, 2014/06/04**

**3.0 Test Completion**

1. **Engineering Integration Tests (EIT)**  
1> **EIT Completed on 2014/09/02**
2. **NTC Tests**  
1> **NTC Completed on 2014/09/05**

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

The \* mark indicates engineering items.

**1. ONIE Installer****Ver. 2014.08.00.05, 2014/09/02**

1	Use the ONIE 2014.08.0 latest code base
2	Add the CPLD update feature

**Ver. 14.5.0.2, 2014/07/07**

1*	Rename the onie_machine as accton_as5712_54x
2	ES5654BT2-FLF-168ZZ-00001 (ONIE): GRUB menu instruction cannot display the Up and Down arrow key.
3	ES5654BT2-FLF-168ZZ-00002 (ONIE): Entry for NOS(or DIAG) in GRUB is disappeared after DIAG(or NOS) installer is installed.
4	ES5654BT2-FLF-168ZZ-00003 (ONIE): Embed operation is not working if manually install the onie-updater.
5	ES5654BT2-FLF-168ZZ-00005 (ONIE): MAC address path_prefix entry is missing when ONIE is using TFTP Waterfall to fetch installer.
6	ES5654BT2-FLF-168ZZ-00006 (ONIE): DHCP Option 42 for NTP server is not working in ONIE.
7	ES5654BT2-FLF-168ZZ-00007 (ONIE): DHCP Option 15 for Domain Name is not working in ONIE.
8	ES5654BT2-FLF-168ZZ-00009 BIOS: The "Network Device BBS Priorities" is not available after Network is changed to Legacy mode.
9	ES5654BT2-FLF-168ZZ-00010 BIOS: External USB flash disk cannot be detected.
10	ES5654BT2-FLF-168ZZ-00011 BIOS: BIOS is crashed after clicking Driver Health.
11	ES5654BT2-FLF-168ZZ-00012 BIOS: Pressing DEL key cannot goto BIOS Setup menu.
12	ES5654BT2-FLF-168ZZ-00013 BIOS: There are too much BIOS messages showing on console.
13	ES5654BT2-FLF-168ZZ-00014 LED: The LED status of 40G QSFP port is incorrect.
14	ES5654BT2-FLF-168ZZ-00016 LED: The status of the QSFP-to-SFP+ LED is incorrect.

**Ver. 14.5.0.1, 2014/05/23**

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. BIOS****Ver. A010707, 2014/07/07**

1	Set Setup Prompt Timeout default as 3 seconds
2	Remove unnecessary error messages during BIOS POST
3	modify string " Press <ESC> to enter setup
4	Enable TPM feature

**3. Diagnostic****Ver. 1.0.1.0, 2014/09/03**

1	Add FPGA test
2	Add diag.cfg backup process. This is for SW to maintain cfg and do recovery when diag.cfg is corrupt for unknown reason.

**Ver. 1.0.0.9, 2014/08/29**

1	Remove to set i2c to init usb hub when linux init
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**Ver. 1.0.0.8, 2014/08/08**

1	Add watchdog reset sub-item to menu mode
2	Add new testing item for reading thermal sensors of CPU 4 core
3	Modify i2c bus driver from built-in to kernel module
4	Modify port mapping for bcm sdk int and read QSFP eeprom
5	Add to display summary of test result

**6. sys\_eeprom****Ver. 1, 2014/06/04**

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

1. BIOS PXE netboot can only link in 1G mode
2. BIOS can't detect USB port. This is fixed in hardware R01 version
3. Fetching installer image from FTP via IPv6 is not supported