AS4600-54T
Data Center Switch
Release Note Version 2015.02.00.05-2015.06.25.00

1.0 Introduction

AS4600-54T consists of 48 10/100/1000 Base-T ports with additional 4 10 Gigabit SFP+ ports. There are two optional expansion modules which supports 2*40G stacking or uplink ports on the rear panel. The management port on the front panel can be used to download the software.

2.0 Release Content

1. **ONIE Installer Ver. 2015.02.00.05, 2015/06/05**
2. **Bootloader Ver. 3.0.1.12, 2015/06/05**
3. **Diagnostic Ver. 1.0.0.1, 2015/03/18**
4. **sys_eeprom Ver. 7, 2014/12/25**

3.0 Test Completion

1. **Engineering Integration Tests (EIT)**
   1> EIT Completed on 2015/06/05

2. **NTC Tests**
   1> NTC Completed on 2015/06/23

4.0 Software/Firmware Fixes, Changes, and Enhancements

*The * mark indicates engineering items.*

1. ONIE Installer

Ver. 2015.02.00.05, 2015/06/05

1	Upgraded to ONIE v2015.02.

Ver. 2014.11.00.04, 2015/03/04

1	Able to install on machines running ONIE v1.6. This is for old ONIE on v1.6 where "onie_machine" and "onie_machine_rev" are the same as in the installer, except that "onie_machine" does not have the "accton_" prefix.

Ver. 2014.11.00.03, 2015/02/26

1	Upgraded to ONIE v2014.11.
2	Erases onboard mass storage in uninstall mode

Ver. 2014.08.00.10, 2014/10/23

1	Added support for inserting kernel modules for updaters and installers running on 2014.08.00.10 or later, to do CPLD update.

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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 installer 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.
4*	Disabled the driver for PHY interrupts, so that for hardware versions R01D and later (e.g. R01E), the management port can link up in ONIE.

Ver. 2014.08.00.08, 2014/09/24

1	Increased the time-out when ONIE starts when waiting for autonegotiation of the managament port.

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_as4600_54t-r0 onie_machine=accton_as4600_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-as4600_54t-r0" and the v2014.08 or later with new onie_platform "powerpc-accton_as4600_54t-r0".

Ver. 1.6.1.5, 2013/11/11

1	adding ONIE updater that accepts three different machine names, accton_4654, ees4654bf-flf-zz, and as4600_54t
2	bug fix: (ONIE)ONIE still fetching the default installer filenames even DHCP option 66 and 67 are provided
3	bug fix: (ONIE)ONIE still fetching the default installer filenames even DHCP option 150 and 67 are provided

Ver. 1.6.1.4, 2013/10/24

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

Ver. 1.6.1.3, 2013/10/04

1	add mkfs.ext2

2. Bootloader

Ver. 3.0.1.12, 2015/06/05

1	Upgraded to align with ONIE v2015.02.00.05.

Ver. 3.0.1.11, 2015/03/04

2	Upgraded to align with ONIE v2014.11.00.04.

Ver. 3.0.1.10, 2015/02/26

1	Upgraded to ONIE v2014.11.

Ver. 3.0.1.9, 2014/10/23

1	Updated the default ONIE version number (2014.08.00.10) inside u-boot.

Ver. 3.0.1.8, 2014/09/02

1	Changed the default value of environment variables to be consistent with ONIE v2014.08: platform=accton_as4600_54t onie_platform=powerpc-accton_as4600_54t-r0

Ver. 3.0.1.7, 2014/03/20

1	to correct lighting of Diag, PSU, FAN, and Module LEDs
2	fixed "Waiting for D_INIT timeout. Memory may not work" message

Ver. 3.0.1.6, 2014/01/10

1	force LED2 (54616S INIT_L) to high
2	improve coding style

Ver. 3.0.1.5, 2013/12/09

1	auto create "platform" in uboot environment if it does not exist

Ver. 3.0.1.4, 2013/11/27

1	add environment variable "platform" with value as4600_54t
2	update the value of enviroment variable "ver" to flash
3	change the default fan speed to full speed

Ver. 3.0.1.2   2013/11/08

1	Linux kernel with 0x2000 (2KB) uboot environment size will be forced to use size 0x10000 (64KB) when boot up
2	fine tune the speed of accessing external USB to be compatible with more USB disks to read big files

Ver. 3.0.1.1, 2013/10/17

1	Fixed the second usb start failure problem

Ver. 3.0.0.1, 2013/10/04

1	Initial version

3. Diagnostic

Ver. 1.0.0.1, 2015/03/18

1*	Rolled back: 4600-54T Port LED Diag tesst result -port ge36 does not support 100 Mbps full duplex. NOTE: A wrong solution was implemented in diagnostics version 1.0.0.0 and is now rolled back. The operator needs to know that the error message for "ge36" is harmless. This item and the wrong solution are marked as internal issues with "*".

Ver. 1.0.0.0, 2015/03/04

1	Add commands to read USB controller firmware and write correct type.

2*	Hid harmless warning: 4600-54T Port LED Diag test result -port ge36 does not support 100 Mbps full duplex. NOTE: This solution was wrong. See diagnostics version 1.0.0.1.
3	During install on ONIE, update sys_eeprom variable "0x2E diag version" as version to be installed.

Ver. 0.0.0.16, 2015/01/21

1*	Add commands to read USB controller firmware and write correct type.
2	Smart partitioning of flash if it is in the wrong partition.

Ver. 0.0.0.15, 2013/12/25

1	fix redundant print message when checking only one PSU.

Ver. 0.0.0.14, 2013/12/18

1	correct the test item for PSU FAN direction

Ver. 0.0.0.12, 2013/11/11

1	initial version

4. sys_eeprom

Ver. 7, 2015/02/26

1	Changed "0x29 ONIE Version" from using the master file to be programmed during production.

Ver. 6, 2015/01/21

1	Changed 0x2E Diag Version from "not needed to be written during Production Testing" to "needed to be written during Production Testing depend on needs".

Ver. 5, 2014/11/19

1	Updated to remove some need for Production Test to write.
2	Added more non-blank default values.

Ver. 4, 2014/10/24

1	Changed 0x29 ONIE version from "2014.08.00.08" to "2014.08.00.10".
2	Added more default values.

Ver. 3, 2014/09/26

1	Changed 0x29 ONIE version from "2014.08.00.05" to "2014.08.00.08".

Ver. 2, 2014/09/05

1	Changed 0x28 Platform Name from "powerpc-as4600_54t-r0" to "powerpc-accton_as4600_54t-r0".

Ver. 1, 2013/11/04

1	Initial version.

5.0 Known Limitations & Workarounds

None