ONL
Release Note
V1.02
(AG9032V1)

Author: BU3-SW2 working Group

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Signature of Approval

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Contents:

Revision History

Date	Version	Author	Comment
01/25/2017	V1.00	Hans Tseng	1. First edition 2. Base on the onl github https://github.com/opencomputeproject/OpenNetworkLinux with commitID: "add948d33f305d41961ebf07b3983cdd0fb5f238"
09/25/2017	V1.01	Hans Tseng	1. Fixed bug: 1.1 shows the correct percentage speed display on fan 1.2 add the shutdown temperature level to the thermal 1.3 show the correct PSU voltage output 1.4 se the correct max fan speed of PSU 1.5 modify the corresponding LED capability 2. add the limitation of PSU, please see the secton.7
11/02/2018	V1.02		1. add the ag9032v1 ONL image to support kernel 3.16.56 and also fixed the bus error with multi-process. 2. In the kernel version 3.15.56, we enable the networking service while booting.

1. General description

The switch device is pre-installed ONIE in mSata storage; user can access system either by console port. BIOS is AMI BIOS, a bunch of system messages are shown in the console while booting. The Diagnostic program on ONIE installer fully leverages BCM shell by adding one extra menu specific to the device. The conceptual SW block diagram is as below:

AMI

1. USB	2. mSata

GRUB

ONIE	ONL	Diagnostic installer	NOS installer

HW devices

PCI driver

broadcom switch BCM56960	Intel IGB (eth0)	HDD / USB device	I^{2}C dev. (sensors, controllers, etc.)	Console
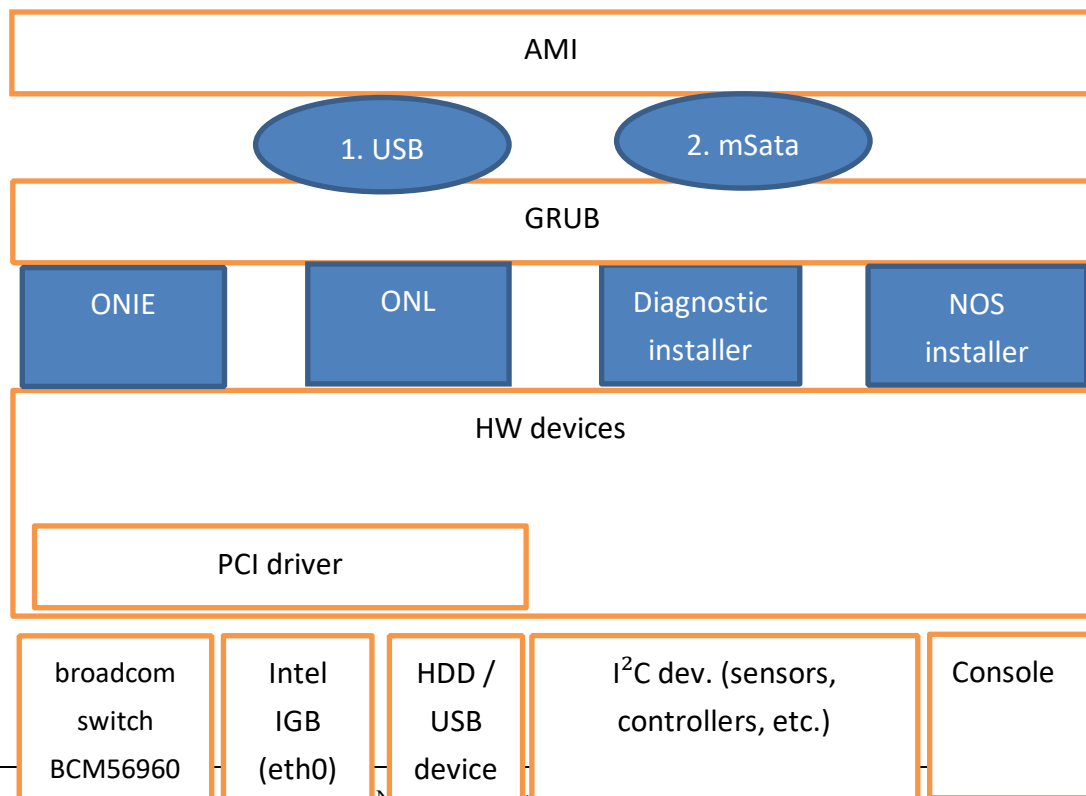
Then boot the system can through console port press <DEL> or <ESC> key to select the boot mode (the boot option priority is 1. mSATA 3ME , 2. UEFI: Built-in EFI Shell)

   Console port settings is: 115200, n, 8, 1

The versions of main software components used in system are listed as below:

ONL kernel: 3.2.6.5-1

ONL OS : Debian 8

You could visit the ONL web to get more information:

   https://github.com/opencomputeproject/OpenNetworkLinux

2. Base Hardware information

Main Chip	Company	Description
Intel Rangeley C2538 -1.7GHz	*Intel*	X86 CPU
BCM56960	*Broadcom*	Switch Controller
8GB DDR3 ECC SO-DIMM		System Memory
16MB SPI NOR Flash *2		Flash ROM
32GB SSD		Storage

3. ONL

Open Network Linux (ONL) is a Linux distribution for bare metal switches. ONL builds an ONIE-compatible installer and a switch image which contains a complete Debian distribution with added drivers and configuration for running on bare metal switches

While loging ONL via enter username "root" and the password "onl"

4. Diagnostic program

The diagnostic program will be install through onie installer, including LED, SMBUS, Storage, Temperature, FAN, PSU, Switch port, MGT port ... etc. test functions. See detailed use of "ENG-AG9032V1 Quick Start Manual V1.0.pdf" file.

5. Software Features support

Specification	Version	Date	Description
AG9032 V1-R_HW_SPEC_ProB_V02_20160730.pdf		07/30/2016	

6. New Features support

Features Description	SKU	Requested by	Available Version	Date	Status	Reference

7. Known Bugs and Limitations

Bug ID/Reporter		Problems	Version	Open Version	Comments
1.	hans	Limitation: When the two PSUs were inserted and plugged power core on the device , both psu's fan minimum speed will be limited at 45% approximately and can't be speed down to lower speed(due to the psu's firmware). But if only one PSU was implemented and there was no limitation on setting psu's fan speed.			
2.					
3.					
4.					
5.					
6.					

7.						

8. Description of Bug Fixed

Diagnostic:

Bug ID/Reporter	Description	Fixed Version	Open Date	Close Date	Status
1					
2					

Support

Please email to hans.tseng@delta.com.tw or call +886-2-87973250 ext 3046 for DNI support.