OFDPA Release Note Ver. 1.0 (AGC7648)

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Signature of Approval

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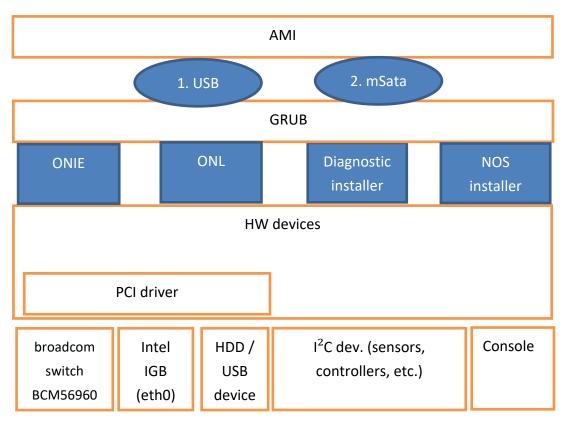
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Revision History

Date	Version	Author	Comment		
07/21/2017	V1.0	Hans Tseng	 First edition Released the "ofdpa-agc7648a_0.3.0.3.1_amd64.deb" which base on the ofdpa 3.0.3.1 See the feature support to understand the 		
			limitation.		

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. And the ONL base on the ONL github commit ID "add948d33f305d41961ebf07b3983cdd0fb5f238" to develop. The conceptual SW block diagram is as below:



Then boot the system can through console port press 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: 3.16.39
ONL OS: Debian Jessie

2. Base Hardware information

Main Chip	Company	Description
Intel Rangeley C2538 -1.7GHz	Intel	X86 CPU
BCM88375	Broadcom	Switch Controller
4G DDR3 ECC SO-DIMM		System Memory
16MB SPI NOR Flash *2		Flash ROM
32G mSATA 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 logging ONL via enter username "root" and the password "onl". Please visit https://github.com/opencomputeproject/OpenNetworkLinux to get more informations.

4. Install OFDPA Package

4.1 Download package

Download the package to the switch device and here is an examples for using tftp tool to download package

```
root@localhost:~# tftp IPaddress
tftp> binary
tftp> get ofdpa-agc7648a_0.3.0.3.1_amd64.deb
tftp> quit
```

4.2 Install the package

```
root@localhost:~# dpkg -i ofdpa-agc7648a 0.3.0.3.1 amd64.deb
```

Note: It may be necessary to run the following command before installing OFDPA because sometimes the ONIE install leaves some packages in a half-configured state:

dpkg --configure -a

4.3 Insert kernel module

```
root@localhost:~# mknod /dev/linux-kernel-bde c 127 0
root@localhost:~# mknod /dev/linux-user-bde c 126 0
root@localhost:~# insmod linux-kernel-bde.ko
root@localhost:~# insmod linux-user-bde.ko
```

4.4 Configure the port speed

root@localhost:~# cd /Broadcom/ofdpa

set port speed to 100G

```
root@localhost:~# cp -af 100G-ofdpa_rc.cfg ofdpa_rc.cfg
```

breakout the port speed to 40G

```
root@localhost:~# cp -af 40G-ofdpa rc.cfg ofdpa rc.cfg
```

breakout the port speed to 25G

```
root@localhost:~# cp -af 25G-ofdpa rc.cfg ofdpa rc.cfg
```

breakout the port speed to 10G

```
root@localhost:~# cp -af 10G-ofdpa rc.cfg ofdpa rc.cfg
```

check the port status

```
root@localhost:~# cd - && ./client_drivshell ps
```

5. Software Features support

Specification	Version	Date	Description
This released package is base on the Broadcom OFDPA $3.0.3.1$, please the visit OFDPA github	3.0.3.1	07/10/2017	

6. New Features support

Features Description	SKU	Requested by	Available Version	Date	Status	Reference

7. Known Bugs

Bug ID/Reporter		Problems	Version	Open Version	Comments
1.					
2.					

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.