b57util

Utilities Program Users Guide

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1. Introduction

This document provides the information on how to use the b57util utilities DOS program on Broadcom Gigabit Ethernet adapter, in particular BCM5700 and its related components.

All commands can be entered from DOS prompt or CLI, the Command Line Interface, prompt. When program is run without parameter, the CLI mode is entered. Otherwise, the parameter will be used as command to be executed and exit the program after.

In CLI, assuming there are three devices in the system, all devices information always displayed before each prompt as the following example:

```
Dev Fmw Bus/Dev Perm.MACAddr SVID SSID Curr.MACAddr SVID SSID WOL PXE PXE Spd
=== === ======= ============ ==== ==== ============ ==== ==== === === ========
 0  1.2 03:09:0 00101801026C 14E4 1644 00101801026C 14E4 1644 no  yes auto
 1  1.0 03:0A:0 001018010278 14E4 1644 001018010278 14E4 1644 no  no  100full
 2  1.3 05:05:0 001018010212 14E4 1644 001018010212 14E4 1644 yes yes auto

b57util>wole all
Enabling wol for device 0
Enabling wol for device 1
Enabling wol for device 2

Dev Fmw Bus/Dev Perm.MACAddr SVID SSID Curr.MACAddr SVID SSID WOL PXE PXE Spd
=== === ======= ============ ==== ==== ============ ==== ==== === === ========
 0  1.2 03:09:0 00101801026C 14E4 1644 00101801026C 14E4 1644 yes yes auto
 1  1.0 03:0A:0 001018010278 14E4 1644 001018010278 14E4 1644 yes no  100full
 2  1.3 05:05:0 001018010212 14E4 1644 001018010212 14E4 1644 yes yes auto

b57util>
```

2. Prerequisites

OS: Dos 6.22

Software: b57util.exe.

3. Functions List

Functions:	cmd:
Enable WOL	wole
Disable WOL	wold
Enable PXE	pxee
Disable PXE	pxed
Change PXE speed	pxes
Upgrade EEPROM	upgf
Software version	ver
Software Help	help
Exit program	exit

4. Functions Description

4.1 wole

cmd: wole

Description: Enable WOL.

Syntax: [-]wole devnum

devnum : Device number. It can be one or more devices in the list. Use 'all' for all devices.

The syntax for devnum is as followed:

<d [,d]… | all>

Where d is the device number 0 to number of devices – 1. For example, if you have three devices in the system, the valid device number is 0, 1, or 2.

Example:

From DOS prompt:

```
C:\>b57util wole 0          ; Enable WOL for device 0
C:\>b57util –wole all       ; Enable WOL for all devices found in the system
```

From CLI prompt:

```
b57util>wole 0,2            ; Enable WOL for device 0 and device 2
```

Please note there is no spaces allowed in the device list. Furthermore, the 'all' parameter must be in lower case.

The '-' before command is optional to support compatibility with b57man.

4.2 wold

cmd: wold

Description: Disable WOL.

Syntax: [-]wold devnum

devnum : Device number. It can be one or more devices in the list. Use 'all' for all devices.

The devnum parameter is same as wole command. Please see wole command for the examples.

4.3 pxee

cmd: pxee

Description: Enable PXE.

Syntax: [-]pxee devnum
devnum : Device number. It can be one or more devices in the list. Use 'all' for all devices.

The devnum parameter is same as wole commend. Please see wole command for the examples.

4.4 pxed

cmd: pxed

Description: Disable PXE.

Syntax: [-]pxed devnum
devnum : Device number. It can be one or more devices in the list. Use 'all' for all devices.

The devnum parameter is same as wole command. Please see wole command for the examples.

4.5 pxes

cmd: pxes

Description: Change PXE speed

Syntax: [-]pxes devnum <auto | 10half | 10full | 100half | 100full>
devnum : Device number. It can be one or more devices in the list. Use 'all' for all devices.

The devnum parameter is same as wole command. The speed must be entered in lower case and exact spelling as stated in the Syntax.

Example:

Changes all device to speed auto for PXE.

```
C:\>b57util pxes all auto
```

4.6 upgf

cmd: upgf

Description: Upgrade the EEPROM content

Syntax: [-]upgf devnum <boot | base | pxe | undi> [path]
devnum : Device number. It can be one or more devices in the list. Use 'all' for all devices.

The devnum parameter is same as wole command. Please see wole command for the examples.

There are four kinds of images can be programmed in to EEPROM: eeprom.bin, b57base.bin, b57pxe.bin, and b57undi.bin.

When 'boot' option is entered, the firmware boot code "eeprom.bin" is programmed into eeprom. When one of 'base', 'pxe', and 'undi' parameter is entered, the b57xxx.bin image is programmed into PXE area.

The optional [path] parameter is used to specify where the file is if it is not in the same directory as b57util.exe.

4.7 ver

cmd: ver

Description: Display software version.

Syntax: ver

Example:

```
C:\>b57util –ver
b57util.exe V1.6
Copyright (c) 2000, 2001 Broadcom Corporation, all rights reserved
```

4.8 help

cmd: help

Description: Display help

Syntax: help

Example:

```
C:\>b57util –help
b57util.exe V1.6
Copyright (c) 2000, 2001 Broadcom Corporation, all rights reserved

wole           WOL Enable
```

```
wold            WOL Disable
pxee            PXE Enable
pxed            PXE Disable
pxes            PXE speed
upgr            Upgrade eeprom content
help            Display Help
ver             Display software version
exit            Exit software
```

4.9 exit

cmd: exit

Description: Exit program.

Syntax: exit from CLI mode.

Example:

```
b57util> exit
```