



b57util

# Utilities Program Users Guide

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Prepared by: Tak Tomita

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Broadcom Corporation  
16125 Alton Parkway  
Irvine, CA 92619-7013  
[www.broadcom.com](http://www.broadcom.com)

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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 BCM570x 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:

```
D Fmw  Bus/Dev  Perm.MACAddr  SVID  SSID  Curr.MACAddr  SVID  SSID  WOL  MBA/ver  Spd
= ====  =====  =====
0 1.2  03:09:0  00101801026C  14E4  1644  00101801026C  14E4  1644  no  P/2.2.5  auto
1 1.0  03:0A:0  001018010278  14E4  1644  001018010278  14E4  1644  no  none     100F
2 1.3  05:05:0  001018010212  14E4  1644  001018010212  14E4  1644  Yes B/2.2.6  auto
```

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

```
D Fmw  Bus/Dev  Perm.MACAddr  SVID  SSID  Curr.MACAddr  SVID  SSID  WOL  MBA/ver  Spd
= ====  =====  =====
0 1.2  03:09:0  00101801026C  14E4  1644  00101801026C  14E4  1644  Yes P/2.2.5  auto
1 1.0  03:0A:0  001018010278  14E4  1644  001018010278  14E4  1644  Yes none     100F
2 1.3  05:05:0  001018010212  14E4  1644  001018010212  14E4  1644  Yes B/2.2.6  auto
```

```
b57util>
```

In the example above, the MBA column indicates the protocol used in the boot agent along with the boot agent version number. The following protocols are supported.

- PXE: indicated by 'P'
- RPL: indicated by 'R'
- BOOTP: indicated by 'B'

## 2. Prerequisites

**OS:** DOS 6.22

**Software:** b57util.exe.

### 3. Functions List

<b>Functions:</b>	<b>cmd:</b>
Enable WOL	wole
Disable WOL	wold
Enable PXE (deprecated)	pxee
Disable PXE (deprecated)	pxed
Change PXE speed (deprecated)	pxes
Enable MBA	mbae
Disable MBA	mbad
Change MBA speed	mbas
Upgrade firmware	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 command. Please see wole command for the examples. This command is deprecated and will eventually be removed; please use mbae command instead.

### 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. This command is deprecated and will eventually be removed; please use mbad command instead.

### 4.5 pxes

**cmd:** pxes

**Description:** Change PXE speed

**Syntax:** [-]pxes devnum <auto | 10h | 10f | 100h | 100f>

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 choices are auto, 10 half duplex, 10 full duplex, 100 half duplex, and 100 full duplex. The speed must be entered in lower case and exact spelling as stated in the Syntax. This command is deprecated and will eventually be removed; please use mbas command instead.

**Example:**



Changes all device to speed auto for PXE.

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

## 4.6 mbae

**cmd:** mbae

**Description:**Enable.

**Syntax:** [-]mbae devnum [pxe | rpl | bootp]

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

The devnum parameter is similar to wole command except for the optional argument. Please see wole command for the examples. The optional argument allows the selection of boot agent. The argument must be entered in lower case and exact spelling as stated in the Syntax. Without this argument, the current boot protocol selection stored in the configuration will be selected. Some boot images do not support multiple boot agents; as a result, the selection will be ignored.

**Example:**

Changes all device to boot using RPL.

```
C:\>b57util mbae all rpl
```

## 4.7 mbad

**cmd:** mbad

**Description:**Disable boot agent.

**Syntax:** [-]mbad 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. This command is essentially identical to pxd command.

## 4.8 mbas

**cmd:** mbas

**Description:** Change boot agent speed

**Syntax:** [-]mbas devnum <auto | 10h | 10f | 100h | 100f>

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 choices are auto, 10 half duplex, 10 full duplex, 100 half duplex, and 100 full duplex. The speed must be entered in lower case and exact spelling as stated in the Syntax. This command is essentially identical to pxe command.

**Example:**

Changes all device to speed auto for the boot agent.

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

## 4.9 upgf

**cmd:** upgf

**Description:** Upgrade the EEPROM content

**Syntax:** [-]upgf devnum <boot | base | pxe | undi | rpl> [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 five kinds of images can be programmed in to EEPROM: eeprom.bin, b57base.bin, b57pxe.bin, b57undi.bin, and b57mba.nic.

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.

## 4.10 ver

**cmd:** ver

**Description:** Display software version.

**Syntax:** ver

**Example:**

```
C:\>b57util -ver
b57util.exe v2.15
Copyright (c) 2000-2002 Broadcom Corporation, all rights reserved
```

## 4.11 help

**cmd:** help

**Description:** Display help

**Syntax:** help

**Example:**

```
C:\>b57util -help
b57util.exe v2.15 (04052002)
Copyright (c) 2000-2002 Broadcom Corporation, all rights reserved
```

wole	WOL Enable
wold	WOL Disable
pxee	PXE Enable
pxed	PXE Disable
pxes	Configure Speed for PXE
mbae	MBA Enable
mbad	MBA Disable
mbas	Configure Speed for MBA
upgr	Upgrade firmware
help	Display Help
ver	Display software version
exit	Exit software

## 4.12 exit

**cmd:** exit

**Description:**Exit program.

**Syntax:** exit from CLI mode.

**Example:**

```
b57util> exit
```