

UEDiag User's Guide

Version 2.5

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1. Introduction

This document provides the information on how to use UEDiag utility.

The UEDIAG program can be controlled via commands entered at the DOS prompt. Running UEDIAG program without any parameters will run series of tests to verify the functionality of the device(s) in the system.

2. Operating Environment

The UEDiag utility operates in an MS-DOS environment. It includes a DOS extender (PMODE/W) that is embedded into the executable and provides access to memory above 1MB.

OS: MS-DOS 6.22

Input File List:

The following files should be found in the same location of the UEDiag.exe.

- everest.rdf
- ipblocks.rdf
- uniblock.rdf
- uniregs.rdf
- uediag.exe

Additional driver(s): ANSI.SYS

To install this driver, simply place ANSI.SYS file in some directory (e.g. C:\DOS) and add a line (e.g. DEVICEHIGH=C:\DOS\ANSI.SYS) in the config.sys file. The ANSI driver allows the manufacturing mode tests to display the test results clearly the Red/Green colors for Fail/Pass status. Note that the eDiag utility will run correctly even without the ANSI driver installed.

Additional driver(s): HIMEM.SYS

To install this driver, place HIMEM.SYS file in a directory (e.g., C:\DOS) and add a line (e.g., DEVICE=C:\DOS\HIMEM.SYS) in the config.sys file. The HIMEM driver is required for TOE test D7 to pass.

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Parameters

-I <iteration#>	: Specify how many iterations tests need to run
-ver	: Display information on UEiag version
-log <logfile>	: Log the tests' execution into the specified file
-help	: Print out this screen
-dev <device#>	: Select device number, tests will be running on
-c <device#>	: Similar to -dev (for backward compatibility)
-wol <1 0>	: enable(1)/disable(0) magic pkt wol
-mba <1 0>	: enable(1)/disable(0) mba
-mfw <1 0>	: enable(1)/disable(0) management firmware
-mbap <n>	: MBA boot protocol: PXE(0), RPL(1), BOOTP(2), iSCSI_boot(3)
-mbav <1 0>	: enable(1)/disable(0) MBA VLAN
-mbavval <n>	: MBA VLAN value (< 65536)
-t <grps/tests>	: Disable certain tests/groups (e.g. -t all)
-T <grps/tests>	: Enable certain tests/groups (e.g. -T all)
-cof	: Allow tests to continue tests on failure
-fbc <bc_image>	: Specify the bin file for combined boot code
-fbc1 <bc1_image>	: Specify the bin file for boot code 1
-fbc2 <bc2_image>	: Specify the bin file for boot code 2
-fl2b <l2b_image>	: Specify the bin file for L2B firmware
-fipmi <ipmi_image>	: Specify the bin file for IPMI firmware
-fump <ump_image>	: Specify the bin file for UMP firmware
-fmba <mba_image>	: Specify the bin file for MBA
-fib <ib_image>	: Specify the bin file for iSCSI boot
-fbc	: Program iSCSI configuration block 0, : used with "-fib <ib_image>" only
-fbc2	: Program iSCSI configuration block 1, : used with "-fib <ib_image>" only
-fibp	: Program iSCSI configuration software, : used with "-fib <ib_image>" only
-F	: Force to upgrade image without checking version
-ffeb <fcoe_file>	: Program FCoE boot.
-ffebc <fcoe_file>	: Program FCoE boot and config block FEB_CFG.
-ffebp <fcoe_file>	: Program FCoE boot and config program FEB_CPRG
-ffebcp <fcoe_file>	: Program FCoE boot, config block (FEB_CFG) and config program (FEB_CPRG).
-dcbx <1 0>	: enable(1)/disable(0) dcbx
-fmfw <mfw_image>	: Specify the bin file for MFW

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3.1 Command line option -I

cmd: -I

Description: Specify how many iterations test need to run

Syntax: -I <value>

<value>: number of iteration(s).

Example:

At the DOS prompt enter:

c:\uediag -I 5

-Run default diagnostic tests 5 times on every device in the system.

3.2 Command line option -Ver

cmd: -ver

Description: Display information on UEDiag version then exits.

Syntax: -ver

Example:

At the DOS prompt:

c:\uediag -ver

-Display the UEDiag version, copyright and device information.

3.3 Command line option -log

cmd: -log

Description: Log the tests execution into the specified file

Syntax: -log <logfile>

logfile: file name (including path when specified).

Example:

At the DOS prompt enter:

c:\uediag -log output.txt

-Save all displayable output into output.txt.

3.4 Command line option -help

cmd: -help

Description: Displays the help options.

Syntax: -help

Example:

At the DOS prompt enter:

c:\uediag -help

-Display all UEDiag's commands with description to screen.

3.5 Command line option -dev

cmd: -dev

Description: Select device number, tests will be running on

Syntax: -dev

Example:

At the DOS prompt enter:

c:\uediag -dev 1-2

-Diagnostic run tests on device 1 and 2 installed in the system.

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- 3.6 Command line option -c
cmd: -c
Description: Similar to -dev (for backward compatibility)

Syntax: -c

Example:
At theDOS prompt enter:
c:\uediag -c 2
- Diagnostic run tests on device 2 installed in the system.
- 3.7 Command line option -wol
cmd: -wol
Description: enable(1)/disable(0) magic pkt wol

Syntax: -wol <1|0>
1|0: 1: enable; 0: disable

Example:
At the DOS prompt enter:
c:\uediag -wol 1 -dev 2
-Enable WOL on device 2.
- 3.8 Command line option -mba
cmd: -mba
Description: enable(1)/disable(0) mba

Syntax: -mba <1|0>
1|0: 1: enable; 0: disable

Example:
At the DOS prompt enter:
c:\uediag -mba 1 -dev 2
-Enable MBA (pxe) on device 2.
- 3.9 Command line option -mfw
cmd: -mfw
Description: enable(1)/disable(0) management firmware

Syntax: -mfw <1|0>
1|0: 1: enable; 0: disable

Example:
At the DOS prompt enter:
c:\uediag -mfw 1 -dev 2
-Enable management firmware on device 2.
- 3.10 Command line option -mbap
cmd: -mbap
Description: MBA boot protocol: PXE(0), RPL(1), BOOTP(2), iSCSI_boot(3)

Syntax: -mbap <n>
n: PXE(0), RPL(1), BOOTP(2), iSCSI_boot(3)

Example:

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At the DOS prompt enter:
c:\uediag -mbap 1 -dev 2
-Enable RPL on device 2.

- 3.11 Command line option -mbav
cmd: -mbav
Description: enable(1)/disable(0) MBA VLAN

Syntax: -mbav <1|0>
1|0: 1: enable; 0: disable

Example:
At the DOS prompt enter:
c:\uediag -mbav 1 -dev 2
-Enable MBA VLAN on dev 2.

- 3.12 Command line option -mbavval <n>
cmd: -mbavval
Description: MBA VLAN value (< 65536)

Syntax: -I <n>
n: number ranging from 1 to 65536

Example:
At the DOS prompt enter:
c:\uediag -mbavval 10 -dev 2
-Set MBA VLAN of 10 to device 2.

- 3.13 Command line option -t
cmd: -t
Description: Disable certain tests/groups (e.g. -t a11)

Syntax: -t <grps/tests>
grps/tests: group(s) of test or specific test(s)

Example:
At the DOS prompt enter:
c:\uediag -t ab5
-Run default diagnostic tests on installed device(s) but skip group "a" and "b5" test.

- 3.14 Command line option -T
cmd: -T
Description: Enable certain tests/groups (e.g. -T a11)

Syntax: -T <grps/tests>
grps/tests: group(s) of test or specific test(s) .

Example:
At the DOS prompt enter:
c:\uediag -T d3
-Run default diagnostic tests on installed device(s) and include "D3" test.

- 3.15 Command line option -cof
cmd: -cof
Description: Allow to continue regression tests after test fails.

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Syntax: -cof

Example:

At the DOS prompt:

c:\uediag -cof

-Run default diagnostic and continue even if test fails.

3.16 Command line option -fbc

cmd: -fbc

Description: Specify the bin file for combined boot code.

Syntax: -fbc <bc_image>

bc_image: "bin file".

Example:

At the DOS prompt enter:

c:\uediag -fbc bc710v40.11

-Upgrade bootcode with bin file "bc710v40.11"

3.17 Command line option -fbc1

cmd: -fbc1

Description: Specify the bin file for boot code 1.

Syntax: -fbc1 <bc1_image>

bc1_image: "bc1 bin file".

Example:

At the DOS prompt enter:

c:\uediag -bc1 bc1710vxx.xx

-Upgrade bootcode with bin file "bc1710vxx.xx".

3.18 Command line option -fbc2

cmd: -fbc2

Description: Specify the bin file for boot code 2.

Syntax: -fbc2 <bc2_image>

bc2_image: "bc2 bin file".

Example:

At the DOS prompt enter:

c:\uediag -bc2 bc2710vxx.xx

-Upgrade bootcode with bin file "bc2710vxx.xx".

3.19 Command line option -fl2b

cmd: -fl2b

Description: Specify the bin file for L2B firmware.

Syntax: -fl2b <l2b_image>

l2b_image: "l2b bin file"

Example:

At the DOS prompt enter:

c:\uediag -fl2b l2b.xx

-Upgrade l2b with bin file "l2b.xx".

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3.20 Command line option -fipmi

cmd: -fipmi

Description: Specify the bin file for IPMI firmware.

Syntax: -fipmi <ipmi_image>

ipmi_image: "ipmi bin file"

Example:

At the DOS prompt enter:

c:\uediag -fipmi pt710v40.10

-Upgrade ipmi with bin file "pt710v40.10".

3.21 Command line option -fump

cmd: -fump

Description: Specify the bin file for UMP firmware.

Syntax: -fump <ump_image>

ump_image: "ump bin file"

Example:

At the DOS prompt enter:

c:\uediag -fump um710v40.10

-Upgrade ump with bin file "um710v40.10".

3.22 Command line option -fmba

cmd: -fmba

Description: Specify the bin file for MBA.

Syntax: -fmba <mba_image>

mba_image: "mba bin file"

Example:

At the DOS prompt enter:

c:\uediag -fmba evmmba.nic

-Upgrade MBA with bin file "evmmba.nic".

3.23 Command line option -fib

cmd: -fib

Description: Specify the bin file for iSCSI boot.

Syntax: -fib <ib_image>

ib_image: "iSCSI boot image file"

Example:

At the DOS prompt enter:

c:\uediag -fib bnx2x_undi_reset.patch

-Upgrade iSCSI boot image with "bnx2x_undi_reset.patch".

3.24 Command line option -fibc

cmd: -fibc

Description: : Program iSCSI configuration block 0, used with "-fib <ib_image>" only.

Syntax: -fibc

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Example:

At the DOS prompt enter:

c:\uediag -fib bnx2x_undi_reset.patch -fibc

- Program iSCSI configuration block 0, using "bnx2x_undi_reset.patch".

3.25 Command line option -fibc2

cmd: -fibc

Description: : Program iSCSI configuration block 1, used with "-fib <ib_image>" only.

Syntax: -fibc2

Example:

At the DOS prompt enter:

c:\uediag -fib bnx2x_undi_reset.patch -fibc2

- Program iSCSI configuration block 1, using "bnx2x_undi_reset.patch".

3.26 -fibp

cmd: -fibp

Description: : Program iSCSI configuration software, used "-fib <ib_image>" only.

Syntax: -fibp

Example:

At the DOS prompt enter:

c:\uediag -fib bnx2x_undi_reset.patch -fibp

-Program iSCSI configuration software, using "bnx2x_undi_reset.patch".

3.27 Command line option -F

cmd: -F

Description: Force to upgrade image without checking version

Syntax: -F

Example:

At the DOS prompt enter:

c:\uediag -fbc bc710v44.4 -F

-Upgrade bootcode with bin file "bc710v44.4". This command line is required if an older version then the current version is needed to be programmed.

3.28 -ffeb

cmd: -ffeb

Description: Program FCoE boot

Syntax: -ffeb <fcoe image>

Example:

At the DOS prompt enter:

c:\uediag -ffeb fcoe.bbin

3.29 -ffebc

cmd: -ffebc

Description: Program FCoE boot and FCoE config block (FEB_CFG)

Syntax: -ffebc <fcoe image>

Example:

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At the DOS prompt enter:
c:\uediag -ffebc fcoeb.bin

3.30 -ffebp

cmd: -ffebp

Description: Program FCoE boot and FCoE config program (FEB_CPRG)

Syntax: -ffebp <fcoe image>

Example:

At the DOS prompt enter:
c:\uediag -ffebp fcoeb.bin

3.31 -ffebcp

cmd: -ffebcp

Description: Program FCoE boot, FCoE config block (FEB_CFG)
and FCoE config program (FEB_CPRG)

Syntax: -ffebcp <fcoe image>

Example:

At the DOS prompt enter:
c:\uediag -ffebcp fcoeb.bin

3.32 Command line option -dcbx

cmd: -dcbx

Description: enable(1)/disable(0) dcbx

Syntax: -dcbx <1|0>
1|0: 1: enable; 0: disable

Example:

At the DOS prompt enter:
c:\uediag -dcbx 1 -dev 2
-Enable DCBX on device 2.

3.33 Command line option -fmfw

cmd: -fmfw

Description: Specify the bin file for MFW.

Syntax: -fmfw <mf_fw_image>
mf_fw_image: "bin file".

Example:

At the DOS prompt enter:
c:\uediag -fmfw mf712v70.38
-Upgrade MFW with bin file "mf712v70.38"