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**PIF I/F Card**

**Driver & Updater Ver.3.7 CD**

**Release Notice**

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August 31, 2007

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This is a release notice describing about Driver & Updater CD Ver.3.7 for PIF I/F Card (PP66 for 3.3V-Bus) used by Windows Trueflow.

It includes specifications and limitations, as well as descriptions of the products and Support software used.

## 1. Product Name

PIF Engine Connection Option 2 (100020611V00)

PIF Card Replacement Option (100047907V00)

## 2. Outline

<Changes in Driver>

This driver is released for fixing trouble that some dual core processor platform goes blue screen or causes error in PIF card with message 'PCI-transfer is aborted.(CheckStatus Error in @SB command)' while recorder output.

Changes are below:

- PCI bus data transfer command is changed from Memory Read to Memory Read Line. New Chip Set does not support burst transfer with Memory Read, so some data transfer might be slow.
- Data transfer timeout is changed from 30 microseconds to 30 milliseconds. Fixed trouble that some dual core processor platform with low response motherboard goes blue screen because of this timeout.
- Polling interval of PIF serial command communication is changed from 1 second to 200 milliseconds to make efficiency for time from recorder ready to starting data transfer.

## 3. Components

There is no change to any goods from latest components. The Driver CD is changed into Ver.3.7 from Ver.3.6

## 4. Product Specification

### 4-1. Supported products

Applications : Trueflow Pro , Trueflow , FlatRunner , DTC (Ver.3.0 or later)

OS : Windows Server 2003 (Windows Server 2003 R2 SP2)  
Windows XP SP2 (only for DTC)

Note: For other OS, please refer corresponding OS name folders of this CD which contain latest version driver for other OS. (Please refer Chapter 5 and 6.)

Recorder : All PIF recorder that applications support

**4-2. Supported OS and Trueflow Version**

Platform	Trueflow Support Version	Support OS	Verified	Limitations for 2 cards I/F (Note*1)	Use of ADC1
Proliant ML370 G5 (HP)	Ver3.0 or later	Windows Server 2003	Yes	Supported 2Card for PP66. Supported PP66 and SCSI.	Not applicable
Proliant ML370 G4 (HP)	Ver3.0 or later	Windows Server 2003	Yes	Supported 2Card for PP66. Supported PP66 and SCSI.	Not applicable
Proliant ML370 G3 (HP)	Ver3.0 or later	Windows Server 2003	Yes	Supported 2Card for PP66. Supported PP66 and SCSI.	Not applicable
Proliant ML310 G4 (HP)	Ver3.0 or later	Windows Server 2003	Not verified	Supported 2Card for PP66. Supported PP66 and SCSI.	Not applicable
Proliant ML150 G2 (HP)	Ver3.0 or later	Windows Server 2003	Yes	Two cards cannot be installed.	Not applicable
Proliant ML330 G3 (HP)	Ver3.0 or later	Windows Server 2003	Yes	Two cards cannot be installed.	Not applicable
Proliant ML330 G2 (HP)	Ver3.0 or later	Windows Server 2003	Not verified	Two cards cannot be installed.	Not applicable
Proliant ML570 G3 (HP)	Ver3.0 or later	Windows Server 2003	Yes	Supported 2Card for PP66. Supported PP66 and SCSI.	Not applicable
Express5800/140Hd 2.2G-2MCache 3.0G-4MCache (NEC)	Ver3.0 or later	Windows Server 2003	Yes	Supported 2Card for PP66. Supported PP66 and SCSI.	Not applicable
Express5800/140Hd others (NEC)	Ver3.0 or later	Windows Server 2003	Yes	Supported 2Card for PP66. Supported PP66 and SCSI.	Not applicable
dc7100MT dc7600MT dc7700MT (HP)	Ver3.0 or later	Windows XP	Yes	Supported 2Card for PP66. Supported PP66 and SCSI.	Not applicable

(Note\*1): Output process is one by one when 2 PIF cards are installed.

**4-3. Cable length**

The maximum cable length is 20 meters.  
(standard 8-meter cable plus a 12-meter extension)

**4-4. Supported switching units**

The LS-313 is the only supported switching unit.

## 5. About the installation

### 5-1. Outline of installation procedure

The installation work is the same as a past boards.

A different point is only folder layout in the CD (see 6-3). Please choose a folder with the name which working OS.

### 5-2. Insertion Slots

#### # With Proliant ML370 G5

1st board : Insert in slot 2 (only PP66)

2nd board : Insert in slot 3 (only PP66)

#### # With Proliant ML370 G4

1st board : Insert in slot 1 (only PP66)

2nd board : Insert in slot 2 (only PP66)

#### # With Proliant ML370 G3

1st board : Insert in slot 5 (only PP66)

2nd board : Insert in slot 6 (only PP66)

#### # With Proliant ML310 G4

1st board : Insert in slot 2 (only PP66)

2nd board : Insert in slot 3 (only PP66)

#### # With Proliant ML150 G2 (Insertion prohibition of two boards)

1st board : Insert in slot 5 (only PP66)

2nd board : Insertion prohibition

#### # With Proliant ML330 G2 / G3 (Insertion prohibition of two boards)

1st board : Insert in slot 2 (only PP66)

2nd board : Insertion prohibition

#### # With Proliant ML570 G3

1st board : Insert in slot 1 (only PP66)

2nd board : Insert in slot 2 (only PP66)

#### # With Express5800/140Hb / 140Hd

1st board : Insert in slot PCI#7 (only PP66)

2nd board : Insert in slot PCI#8 (only PP66)

#### # With dc7100MT / 7600MT / 7700MT

1st board : Insert in expansion PCI slot 1 (only PP66)

2nd board : Insert in expansion PCI slot 2 (only PP66)

#### <Cautions>

If you insert SCSI board, you can only insert the 2nd board slot.

## 6. Driver (Ver.3.7)

### 6-1. outline

This CD is include the driver for fixing trouble that recorder output stops.

### 6-2. Driver change history

Version	Released day	Content	Change module	Reference information
Ver3.0	February 19, 2003	1st release		Technical Information SYSTEM 20030024
Ver3.1	March 18, 2003	For trouble of FPGA Update tool (There is no change of the real driver )	#PIFRomUpper.exe Ver1.1.0.4 #Correction of Install Doc for Win2K	Technical Information SYSTEM 20030038
Ver3.2	June 6, 2003	For specification OEM ahead (It is the same as Ver3.1 in TF )	#WinNT(PIFDRV) PIFPP66.SYS & INF: Ver3.2.0.0 #Win2K(Win2k) PIFPP66.SYS PIFDRV.INF: Ver3.2.0.0 #Pifdrv.dll(common) : Ver3.2.0.0	Technical Information SYSTEM 20030076
Ver3.3	March 24, 2004	OEM Test Release. For Windows Server 2003.	#Windows Server 2003 PIFPDRV.SYS & INF: Ver3.3.0.0 PIFPP66.SYS & INF: Ver3.3.0.0 Pifdrv.dll: Ver3.3.0.0	
Ver3.4	February 25, 2005	For Windows Server 2003. Fixed trouble with PI-R2008.	#RomUpper FPGAPP66.IMG	Technical Information SYSTEM 20050049
Ver3.5	May 18, 2005	Fixed trouble with in Windows Server 2003.	#Windows Server 2003 PIFPP66.SYS & INF: Ver3.5.0.0	Technical Information SYSTEM 20050104
Ver3.6	March 22, 2006	Fixed trouble that recorder output does not end	#Windows Server 2003 PIFPP66.SYS & INF: Ver3.6.0.0 #Win2K PIFPP66.SYS PIFDRV.INF: Ver3.6.0.0 #RomUpper FPGAPP66.IMG	SYSTEM 20060070
Ver3.7	August 31, 2007	Fixed trouble that recorder output stops. Serial communication improved	#Windows Server 2003 PIFPP66.SYS & INF: Ver3.7.0.2	This release note

### 6-3. Folder composition in Ver3.7 CD and content

/Driver : Driver folder for Card.

There are the following sub-folders.

OldVersion : This is a folder which preserved the driver of previous version.

Win2000 : Driver folder for Windows 2000.

The inf file is common file for PP66 and ADC1.

There is InstallDoc.txt which describes the outline of the installation procedure for Windows 2000, too.

Win2003 : Driver folder for Windows Server 2003 and Windows XP.

The inf file exists PP66 and ADC1 respectively.

There is InstallDoc.txt which describes the outline of the installation procedure for Windows Server 2003, too.

WinNT : Driver folder for Windows NT.

The inf file exists PP66 and ADC1 respectively.

There is InstallDoc.txt which describes the outline of the installation procedure for Windows NT, too.

/RomUpper : This is a folder which put the tool of the update of the firmware of the board.

The test tool can use PP66 and ADC1 together.

/TestTool : This is a folder which put the tool for the diagnosis of the board.

The test tool can use PP66 and ADC1 together.

### 6-4. How to get this data

The data of "PIF I/F Card Driver and Updater Ver.3.7" can be downloaded from the following URLs.

# URL for Japan (This is a local url in the company, and is not on the internet.)

[ftp://evaserver/patch/jpn/PIF-Driver/PX007/PIF\\_Driver\\_V37T1.EXE](ftp://evaserver/patch/jpn/PIF-Driver/PX007/PIF_Driver_V37T1.EXE)

# URL for Overseas

**!! Please contact to EPSG or STCA to get the driver.**

### 6-5. For self-diagnosis

# The self-diagnosis tool of the PIF boards installed with less than Trueflow Ver2.12 is the one for the ADC1 boards.

Tool folder : /TRUEFLOW\_SYSTEM/bin/utilities/

Tool name : ADC\_Information.exe & ADC\_PIF.exe

Please use the one of the TestTool folder of Ver3.0 or later CD when do the self-diagnosis of the PP66 boards with less than Trueflow Ver2.12.

The operation method is the same as the past.

TestTool of Ver3.7 CD corresponds to the ADC1 boards.

#### < Information >

The self-diagnosis tool of the driver CD Ver3.7 is installed in Trueflow Ver2.12.

Tool folder : /TRUEFLOW\_SYSTEM/bin/utilities/

Tool name : PIF\_Information.exe & PIF\_Test.exe

**6-6. FPGA Version of PIF Boards** (As of August 31, 2007)

After update the FPGA to use RomUpper in this CD, the version of each card is as follows.

	PP66 Board	ADC1/ADP1Board		
	Rev.A	Rev.C	Rev.D(E)	Rev.F
FPGA-1	1.1.1O	1.1.1M	2.0.2M	2.5.2M
FPGA-2	None	1.0.5F	2.0.1F	2.5.1F
FPGA-3	None	1.0.1P	1.0.1P	1.0.1P

It is possible to see the version using “PIF\_Information.exe” in TestTool.

**6-7. Driver Version**

After installed the driver , the correct version of driver is as follows.

	PP66 Board PIFPP66.SYS	ADC1/ADP1Board PIFDRV.SYS
Win2003	3.7.0.2 [Jul 12, 2007 03:07]	3.3.0.0 [Feb 10, 2004 13:30]
Win2k	3.6.0.0 [Mar 20, 2006 18:00]	No Version Info [Dec 17, 2002 09:58]
WinNT4	3.2.0.0 [Mar 19, 2003 16:09]	No Version Info [Dec 17, 2002 09:51]

It is possible to see the version in file property of “Pifpp66.sys” in the “Driver Details”

**6-8. Recovery at the time of Installing Driver for Win2003 to Win2k**

On the platform installed Windows 2000, the driver for Windows 2003 was installed automatically using Plug&Play. Because it is the latest version in stored in this CD.

In this case, please upgrade the driver the source folder is “x:/Driver/Win200” ( “x” is the drive letter for CD)

(It is possible to check the version according to the table of 6-7)