QUICKNOTE
applicom NIC - Compatibility tables

Rev	Date	File Name
1.23	13/09/2013	applicom NIC - Compatibility tables

- Product concerned: applicom product family
- Product version: All
- Environment: All
- Related documents: applicom hardware Help File (detailed technical information)
- Restriction : None

This document describes you how to update your existing configuration according to yours requirements.

To offer you the best information, we advice you to read this document from start to the end in order to be sure having the good settings and to get the best solution.

The information in this document is reliable at the time of the editing. At any time, Molex can decide to change this information.

1. Why do you need to upgrade?

1.1. Introduction

In the industrial environment, some reasons lead you to upgrade your computer environment.
(For example, the change of your Operating System)

For some compatibility reasons, you certainly need to upgrade the applicom solutions (hardware, software, Bios and options).

According to your operating system, software version, type of card and Bios version, this document will help you to understand the updating process and how to do it.

Note: an upgrade is a software / Bios combination. **In order to avoid any potential incompatibility, it is strongly recommended to upgrade BOTH components (Software [cd-rom] + BIOS [Flash or Eprom])**

1.2. How to use this note - Sample

You are using the PCI2000ETH B (Bios 4.0.0) under Windows NT4 SP6 with the applicom version 3.4 SP2.
You want to upgrade your operating system from Windows NT4 to Windows 7.

STEP1: refer to the TABLE 1
- Select the operating system: Windows 7
- Check the version supported. In our case, you have to upgrade your applicom software version to the latest one V4.1 (*V3.4 SP2 is not compatible with Windows 7*)
- Note: The latest software version is strongly advised.

STEP2: refer to the TABLE 2
- Select the card: PCI2000ETH B and check the Bios version.
- In our example, you need the version V4.1.0 (*V4.0.0 not fully compatible with Windows 7*).
- So, you will be obliged to flash the Bios version. (via Pckey.exe tool)

 Upgrading the applicom solutions => Refer to the chapter 3

2. Compatibility tables

2.1. Compatibility between the applicom software versions and Windows operating systems

TABLE 1

applicom software versions	V4.1	V4.0	V4.0	V3.8	V3.7	V3.6[1]	V3.5	V3.4	V3.3	V3.2	V3.1	V3.0
Latest applicom Service Pack		SP2		SP5	SP1	SP4		SP2	SP3	SP3	SP2	
Version Delivery Dates	2011	2011	2008	2004	2003	2002	2001	2001	2000	1999	1999	1998
Windows 2008 Server R2 64 Bits (WoW64 only)	√	√										
Windows 2008 Server SP2 (32/64 Bits WoW64 only)	√	√										
Seven (32/64 Bits WoW64 only)	√	√										
Vista SP2 (64 Bits WoW64 only)	√	√	√ (2)									
Vista SP2 32 Bits	√	√	√									
Windows 2003 Server SP2 (64 Bits WoW64 only)	√	√	√ (2)	√ (2)								
Windows XP SP3 (64 Bits WoW64 only)	√	√	√ (2)	√ (2)								
Windows 2003 Server SP2 32 Bits	√	√	√	√								
Windows XP SP3 32 Bits	√	√	√	√	√	√	√ (3)					
Windows 2000 Server SP4				√	√	√	√	√				
Windows 2000 SP4				√	√	√	√	√				
Windows NT 4.0 SP 6				√	√	√	√	√	√	√	√	√
Windows 98						√	√	√	√	√	√	√
Windows 95							√	√	√	√	√	√
Windows 3.x											√	√

Notes:

1	FMS Profibus messaging is no longer supported for higher versions than V3.6. Moreover the PCU1500PFB can not be used with V3.6 for FMS / S5 for S7 / FDL messaging
2	You need to install the 64 bits driver manually. Please prefer installing v4.0 SP2 version.
3	OPC server is available. No DDE server.

For your information, you can find all the applicom software versions from this link. (Option 3 =>applicom)

WoW64 (Windows-on-Windows 64-bit) is a subsystem of the Windows operating system that is capable of running 32-bit applications and is included on all 64-bit versions of Windows.

2.2. Compatibility between the applicom and the Bios versions of the different types of cards.

TABLE 2

Bus format	Card name + version	V4.1 [2]	V4.0 [2]	V3.8	V3.7	V3.6	V3.5	V3.4	V3.3	V3.2	V3.1	V3.0	Bios	S/N
PCI Express 1x	PCIE2000ETH	4.5.0	4.5.0	4.5.0									Flash	590000/599999
	PCIE1500PFB	4.5.0	4.5.0	4.5.0									Flash	610000/619999
	PCIE1500S7	4.5.0	4.5.0	4.5.0									Flash	620000/629999
	PCIE1000	4.5.0	4.5.0	4.5.0									Flash	600000/609999
Univ. PCI 3.3V&5V	PCU2000ETH F	4.5.0	4.5.0	4.5.0									Flash	710000/719999
	PCU1500PFB F	4.5.0	4.5.0	4.5.0									Flash	524000/524999
	PCU1500S7 F	4.5.0	4.5.0	4.5.0									Flash	534000/534999
	PCU1000 F	4.5.0	4.5.0	4.5.0									Flash	543000/543999
	PCU2000ETH E	4.5.0	4.5.0	4.5.0	4.5.0	4.5.0							Flash	500000/509999 580000/589999
	PCU1500PFB E	4.5.0	4.5.0	4.5.0	4.5.0	4.5.0							Flash	167000/169999 520000/529999
	PCU1500S7 E	4.5.0	4.5.0	4.5.0	4.5.0								Flash	157000/159999 530000/539999
	PCU1000 E	4.5.0	4.5.0	4.5.0	4.5.0	4.5.0							Flash	540000/549999
	PCU2000ETH D	4.3.0	4.3.0	4.3.0	4.3.0	4.3.0							Flash	430000/439999
	PCU1000 D	4.3.0	4.3.0	4.3.0	4.3.0	4.3.0							Flash	470000/479999
	PCU1500PFB D	4.3.0	4.3.0	4.3.0	4.3.0								Flash	450000/459999
	PCU1500S7 D	4.3.0	4.3.0	4.3.0	4.3.0	4.3.0							Flash	460000/469999
PCI 5V [3]	PCI2000FIP	4.0.0	4.0.0	4.0.0	4.0.0	4.0.0	4.0.0	4.0.0	3.7.5	3.7.1	3.7.1		EPROM	120000/129999 224900/224999
	PCI4000	4.0.0	4.0.0	4.0.0	4.0.0	4.0.0	4.0.0	4.0.0	3.7.5	3.7.1	3.7.1		EPROM	130000/139999 225000/225999
	PCI1000	4.0.0	4.0.0	4.0.0	4.0.0	4.0.0	4.0.0	4.0.0	3.7.5	3.7.1	3.7.1		EPROM	140000/149999 225100/225299
	PCI1500S7	4.0.1	4.0.1	4.0.1	4.0.1	4.0.1	4.0.1	4.0.0	3.7.5/3.7.6	3.7.1	3.7.1		EPROM	150000/156999 221000/221999
	PCI1500PFB	4.0.1	4.0.1	4.0.1	4.0.1	4.0.1	4.0.1	4.0.0	3.7.5/3.7.6	3.7.1	3.7.1		EPROM	160000/166999 222000/223999
	PC104PFB	4.0.1	4.0.1	4.0.1	4.0.1	4.0.1	4.0.1	4.0.0	3.7.5/3.9.0	3.7.2	3.7.2		Flash	180000/189999
	PCI2000	4.0.0	4.0.0	4.0.0	4.0.0	4.0.0	4.0.0	4.0.0	3.7.5/3.8.0	3.7.3			EPROM	230000/239999 225300/225399
	PCI2000MBP	4.0.0/4.5.1	4.0.0/4.5.1	4.0.0/4.5.1	4.0.0	4.0.0	4.0.0	4.0.0	3.8.0				Flash	240000/249999 227000/227999
	PCI2000ETH B	4.1.0	4.1.0	4.1.0	4.1.0	4.1.0	4.0.1	4.0.0	3.9.0				Flash	290000/299999 307000/307999
	CPCI1000PFB	4.0.1	4.0.1	4.0.1	4.0.1	4.0.1	4.0.1	4.0.0					Flash	330000/339999
	PC104PFB B	4.2.0/4.5.1	4.2.0/4.5.1	4.2.0/4.5.1	4.2.0	4.2.0							Flash	360000/369999
	PCI2000PFB B	4.2.0/4.5.1	4.2.0/4.5.1	4.2.0/4.5.1	4.2.0	4.2.0							Flash	400000/ 409999
	PCI2000ETH C	4.2.0	4.2.0	4.2.0	4.2.0	4.2.0							Flash	390000/399999
	PCI2000ETH A [1]	4.0.0	4.0.0	4.0.0	4.0.0	4.0.0	4.0.0	4.0.0	3.7.5/3.7.6	3.7.1	3.7.1	3.7.0	EPROM	110000/119999 220000/220999
	PCI2000PFB [1]	4.0.0	4.0.0	4.0.0	4.0.0	4.0.0	4.0.0	4.0.0	3.7.5/3.9.0	3.7.1	3.7.1	3.6.0	Flash	90000/99999 224700/224799
ISA	PC4000A [1]	/	/	/	/	/	/	/	/	3.7.1	3.7.1	3.4	EPROM	N/A
	PC1000A [1]	/	/	/	/	/	/	/	/	3.7.1	3.7.1	3.3	EPROM	N/A
	PC1000PFB [1]	/	/	/	/	/	/	/	/	3.2	3.2	3.2	EPROM	N/A
	PC2000ETH A [1]	/	/	/	/	/	/	/	/	3.7.1	3.7.1	3.6.0	EPROM	N/A
	PC1000B [1]	/	/	4.0.0	4.0.0	4.0.0	4.0.0	4.0.0	3.7.5	3.7.1	3.7.1	3.6.0	EPROM	10000/19999
	PC2000ETH [1]	/	/	4.0.0	4.0.0	4.0.0	4.0.0	4.0.0	3.7.5/3.7.6	3.7.1	3.7.1	3.6.0	EPROM	20000/29999
	PC1500PFB [1]	/	/	4.0.0	4.0.0	4.0.0	4.0.0	4.0.0	3.7.5	3.7.1	3.7.1	3.6.0	EPROM	30000/39999
	PC4000B [1]	/	/	4.0.0	4.0.0	4.0.0	4.0.0	4.0.0	3.7.5	3.7.3	3.7.1/3.7.3	3.6.0	EPROM	40000/49999
	PC2000FIP [1]	/	/	4.0.0	4.0.0	4.0.0	4.0.0	4.0.0	3.7.5	3.7.1	3.7.1	3.6.0/3.7.0	EPROM	50000/59999
	PC2000 [1]	/	/	4.0.0	4.0.0	4.0.0	4.0.0	4.0.0	3.7.5	3.7.1	3.7.1	3.6.0	EPROM	60000/69999
	PC1500S7 [1]	/	/	4.0.0	4.0.0	4.0.0	4.0.0	4.0.0	3.7.5	3.7.1	3.7.1	3.6.0	EPROM	100000/109999

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Notes:

1	Card Type: These cards can no longer be upgraded.
2	Those versions are compatible Windows Vista and upper. But your card must be also compatible Windows Vista and upper in having the key CA0107 / CA0108.Please check it out with PCKEY.exe tool. If you can't, please be aware that all PCI cards, PCU2000ETH with S/N lower than 582290, PCU1500PFB with S/N < 521624, PCU1500S7 with S/N < 531768 and PCU1000 with S/N < 541304 were delivered without such key. You need to purchase an upgrade package - Refer to 3.3
3	Read carefully the limitations in this document when upgrading legacy PCI card with latest PC generation.

3. How to order the upgrade

3.1. Required information

Before contacting your local distributor or Molex support, please look for the following information required to order this upgrade:

=> **-1-The board identification** including:

▪ Serial number   ▪ Type of card   ▪ Firmware version

How to find the serial number:
- On the back of the board
- On the delivery package
- From the console V3.8 ("?" > card information)
- From the applicom.log file located at:

applicom version	Directory
v3.1 to v3.2	C:\Program files\applicom\applicom 3.x
v3.3 to v3.8	C:\Program files\...\applicom 3.x\Config*Config_name*
v4.0	C:\Documents and settings\All user\Application Data\woodhead\applicom\4.0\Config*Config_name*

Scroll down and find the last identification (end of file).
You will see (eg.): "*Board n° 1 PCI2000ETH B prom v4.0.0 serial number 290156*"

▪ *Serial number is '290156'*   ▪ *Type of card is 'PCI2000ETH B'*   ▪ *Firmware version is 'V4.0.0'*

=> -**2-The computer environment**

▪ *The* applicom software version   ▪ *The* operating system(+SP)   ▪ *The* protocol/messaging
  (+SP) *ex: v3.4 SP2*   *ex: Win NT4 SP6*   *ex: Modbus TCP*

3.2. Contacts

To purchase the upgrade APP-UPG-CRD, please contact your local distributor, or your Molex sales contact.

3.3. APP-UPG-CRD package

APP-UPG-CRD is consisted of Product CD (latest applicom software version) + 2 codes (they will allow you to update the CA0108 key & BIOS version) + the data sheet procedure (How to use the codes with PCKEY.exe tool)

4. Limitations when upgrading legacy PCI card in Latest PC generation

When legacy PCI card is installed in latest PC generation (Multi-processor, Multi-core,...) there is a potential risk to meet hardware incompatibly/issues (speed bus, timings..)

In case of such issue:
- *When possible, Molex highly recommends to replace the existing PCI card, and use our latest Network Interface Card supporting Universal PCI 3.3/5V (ref. APP-xxx- PCU) or PCI Express 1x (ref. APP-xxx-PCIE) slot bus.*
- *Molex cannot be held as responsible. You – and not Molex or a Distributor – assumes the entire cost of necessary servicing, repair, purchasing or correction.*