



*Advanced PLC program development  
and documentation software*

Application Note TD-AN-33

Using O.N.E. Win32  
with 1784-PCMK under Windows 95/98

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First Printing: January, 1999  
Latest Printing: June, 1999

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## USING O.N.E. Win32 with a 1784-PCMK under Windows 95/98

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As of the May 1999 release of ONEKT.WIN we no longer use an IRQ with the PCMK card or KTx cards. So you can ignore the IRQ setting in ONECFWIN.EXE and ONECNFIG.EXE. These editors still show the IRQ setting because our DOS driver still uses it.

This application note is intended to assist you in configuring your PC for the use of TOPDOC PLC-5 and PLC-3 and its associated ONEKT driver for use with the PCMK card in a Windows 95 or Windows 98 environment. We currently do not support the PCMK card on Windows NT, but do now support the KTx cards there.

**CAUTION:**        **Be sure to read this entire document before starting to make changes to your system - different procedures may apply based on your situation!!!!**

1. Install the ONE for Win32 Driver Pack (if not already installed.) This is sometimes called ONEW32 or ONEWin32. You may have received it on diskette with TOPDOC 4.x or you may download the diskette image from our resource library website:

<http://www.softplc.com/splclib.htm>

Make sure you have at least the May 1999 release of our ONEW32 file set, as this is when we dropped the requirement for IRQ. It is also when we added the series B PCMK binaries. The series B binaries are required to work with a series B PCMK card, but will also work fine on a series A card.

At the above URL, this is the file **ONEW32.ZIP**. Unzip this file to a blank diskette, label it, and then install it.

2. Download the file presented at:

<http://www.software.rockwell.com/support/download/detail.cfm?ID=240>

Unzip this diskette onto a blank floppy diskette and label it. If you already have some Rockwell Software installed that uses a PCMK card, then run the program **PCMKUPDT.EXE** from this floppy. If you do not have any PCMK software support installed, then do not run this program.

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3. Starting from a point where your system knows nothing about the PCMK card (no installed driver support), and with the PCMK card removed, reboot your computer. Then **after** it is powered up, install your PCMK card into one of your PCMCIA slots, **while powered up**.
4. At this point Windows 95/98 should prompt you for a driver diskette since PCMCIA is plug and play. Insert the diskette that you made in step 2, and go with the user interface flow.
5. After installing the WIN95 driver, you will need to manually set an ONE compatible memory address such as C300, D300 or DB00. So we must find out what the memory setting is for the card. One way is to go into the Control Panel and select the PCMKinfo icon that was installed as part of step 4. Write down the memory address shown.
6. Run C:\TDSYS\ONECFWIN.EXE and add a KT & PCMK channel if you don't already have one. Zoom into the detail screen and select a matching memory address from the right most column of the memory select listbox, under the KTX title of the memory select listbox (right most column). Try to find a match to the address you wrote down in step 5 or step 7.
7. If you are unable to find a match, then you may have to try and "move" the PCMK card's memory setting in the Control Panel. Do this by selecting "Settings", "Control Panel", "System", "Device Manager", "Allen Bradley PCMK Family", "Allen Bradley 1784-PCMK (Driver 2.21)", and "Properties". Once here, select "Resources" and **un-check "Use automatic settings"** (Windows 98 users may not see this<sup>1</sup>). Then double click on the field "Memory Range" and you should see a pop up window, giving you a list of available memory ranges. Pay attention to the first part of the range. Note that these are physical memory addresses rather than physical segments that ONE shows, so there will be an extra zero shown, as compared to the addresses in ONECFWIN. Ignore that extra trailing zero (as well as leading zeros) to decide equivalence. An ONECFWIN address of C300 would be equivalent to 000C3000 - 000C3FFF here.

**NOTE:** Within ONECFWIN.EXE, you need to use the memory address from the right hand column in the ONE PCMK Board Address settings. You will need to go back to the ONECFWIN editor to get a list of choices. The idea is to get a memory address that can be selected from both ONECFWIN and the control panel. You may have to repeat these steps 6 and 7 a few times.

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8. If you don't have EMM386.EXE installed in your CONFIG.SYS file, then things should work for you now. If you do have it installed, you are advised to REM it out.

If you insist on using it and you are running under Window 95 (not 98), then you must add a **WIN** statement to block out a memory region for your card:

```
device=C:\windows\emm386.exe WIN=C300-C3FF
```

Use your segment address from ONECFWIN in place of the C300-C3FF.

9. Once you have matching Control Panel indicated PCMK Memory Address and ONECFWIN indicated PCMK memory segment, then re-boot the computer, load ONEPRO.EXE, start TOPDOC and you should be able to go online.

**Note 1.** Windows 98 removed the ability to override the plug and play assignments. If you cannot find a matching physical segment address within ONECFWIN.EXE, then sometimes it is possible to push the card up in memory by using the EMM386.EXE WIN=C000-CAFF statement in CONFIG.SYS. Reboot, and then repeat steps 7, then 6. Windows 98 also differs from 95 in that the region used by the card does not need to be excluded if using EMM386. Win98's plug and play assignments are based on the objective of keeping the card out of the EMM386 excluded region. Whereas with Win95, if EMM386 is used, we must have the card in an excluded region.