



Windows NT/2000/XP Setup to Utilize Shared Interrupts on Quad-serial Module

WARNING: INCORRECTLY MODIFYING THE REGISTRY CAN CAUSE SEVERE SYSTEM PROBLEMS.

The following Windows NT/2000/XP Registry changes are required to enable shared interrupts with the PCM-COM4/COM4A serial cards. This example assumes the following I/O Map and IRQ 11 are selected:

Channel1	Channel2	Channel3	Channel4	Int. ID
100	108	110	118	240

- 1) Start REGEDT32.EXE and proceed through the Registry levels to the following subkey:
KEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Service\Serial\Parameters
- 2) Add a key for each serial port by choosing **Add Key** from the **Edit** menu. For example, enter "Serial5" as the **Key Name** and leave the **Class** blank then select <OK>.
- 3) Enter the appropriate values for the new keys. For example highlight the **Serial5** key and select **Add Value** from the **Edit** menu, type "DosDevices" for the **Value Name** then select "REG_SZ" for the **Data Type** and click <OK>. Enter COM5 for the **String** and press <Enter>. Repeat this for each of the following values and for the other ports:

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Serial5 --      DosDevices : REG_SZ : COM5
                ForceFifoEnable : REG_DWORD : 0x1
                Interrupt : REG_DWORD : 0xb
                InterruptStatus : REG_DWORD : 0x240
                PortAddress : REG_DWORD : 0x100
                PortIndex : REG_DWORD : 0x1

Serial6 --      DosDevices : REG_SZ : COM6
                ForceFifoEnable : REG_DWORD : 0x1
                Interrupt : REG_DWORD : 0xb
                InterruptStatus : REG_DWORD : 0x240
                PortAddress : REG_DWORD : 0x108
                PortIndex : REG_DWORD : 0x2

Serial7 --      DosDevices : REG_SZ : COM7
                ForceFifoEnable : REG_DWORD : 0x1
                Interrupt : REG_DWORD : 0xb
                InterruptStatus : REG_DWORD : 0x240
                PortAddress : REG_DWORD : 0x110
                PortIndex : REG_DWORD : 0x3

Serial8 --      DosDevices : REG_SZ : COM8
                ForceFifoEnable : REG_DWORD : 0x1
                Interrupt : REG_DWORD : 0xb
                InterruptStatus : REG_DWORD : 0x240
                PortAddress : REG_DWORD : 0x118
                PortIndex : REG_DWORD : 0x4
  
```

4) After modifications to the Registry are complete, quit Windows NT and restart computer. COM5-COM8 should now be accessible through Windows NT (they will appear in the serial port list under Control Panel/Ports).

Please contact the Applications Engineering Dept. at (817)274-7553 if you need additional information.

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