

**Supplementary Information to  
HIWIN PCI-4P Motion Library  
User's Manual  
Regarding Initialization of multiple  
cards with Microsoft VB 6.0**

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## Initialization of multiple cards with Microsoft VB 6.0

In the section 2.5 of PCI-4P MOTION LIBRARY USER'S MANUAL, it is described how to initialize MCCL for multiple cards. However, the description applies only to C language. This supplementary information explains how to initialize MCCL with VB 6.0

The following is an example of how to support 2 cards with VB 6.0. This has to be done manually.

1. Add SYS\_CARD\_CONFIG\_EX in the module file: MCCLPCI\_45.BAS

```
Type SYS_CARD_CONFIG_EX
    wCardType0      As Integer
    wCardAddress0   As Integer
    wIRQ_No0        As Integer
    wPaddle0        As Integer
    wCardType1      As Integer
    wCardAddress1   As Integer
    wIRQ_No1        As Integer
    wPaddle1        As Integer
End Type
```

2. Modify the line of MCC\_InitSystem() like below near SYS\_CARD\_CONFIG\_EX:

```
Declare Function MCC_InitSystem Lib "MCCLPCI_45.dll" (ByVal
nInterpolateTime As Long, ByRef psCardConfig As
SYS_CARD_CONFIG_EX, ByVal wCardNo As Integer) As Long
```

3. Finally, program like below in the initialization section of your VB 6.0 program.

```
Dim CardConfig As SYS_CARD_CONFIG_EX
Dim lReturnValue As Long

CardConfig.wCardType0 = 2
```

```
CardConfig.wCardAddress0 = 0
```

```
CardConfig.wIRQ_No0 = 0
```

```
CardConfig.wCardType1 = 2
```

```
CardConfig.wCardAddress1 = 0
```

```
CardConfig.wIRQ_No1 = 0
```

```
lReturnValue = MCC_InitSystem(5, CardConfig, 2)
```

### **Reason why user has to do the above manually in VB 6.0**

In the module file: MCCLPCI\_45.BAS:

For single card, the declaration looks like:

```
Declare Function MCC_InitSystem Lib ....., ByRef psCardConfig As  
SYS_CARD_CONFIG, ....
```

For multiple cards, the declaration looks like:

```
Declare Function MCC_InitSystem Lib ....., ByRef psCardConfig As  
SYS_CARD_CONFIG_EX, ....
```

Because in VB 6.0, polymorphism is not supported, it is not possible to provide different arguments with a same function name.