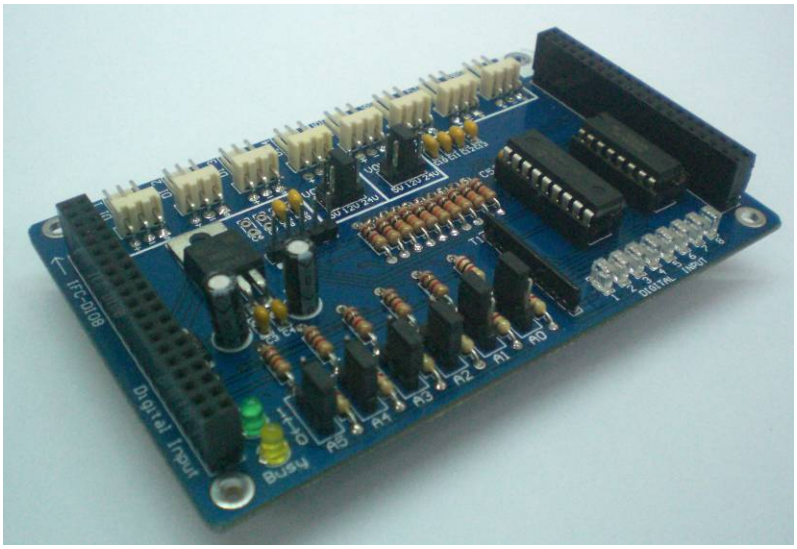
IFC-DI08
Interface Free Controller
Digital Input



Card Library Functions for Visual C# Express and Visual Basic Express

V1.0

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Function Prototype for Digital Input (DI08)

This document explains the function prototype for controlling IFC-DI08 using PC through IFC-CI00. User may also use 'object browser' under Microsoft Visual C# to view the summary, parameter and return value description of IFC-DI08 function prototype. User need to add reference 'ifc_ci.dll' and 'ifc_di.dll' for IFC-CI00 and IFC-DI08 card in order to control/communicate IFC-DI08 using PC. Please note that before user start the programming, user need to initialize the 'ifc.ifc_ci' and 'ifc.ifc_di' in order to use the functions to control IFC-DI08. Example of creating a 'ifc.ifc_ci' class called 'ifc1' and 'ifc.ifc_di' class called di1:

```
static ifc.ifc_ci ifc1 = new ifc.ifc_ci(74);
ifc.ifc_di di1 = new ifc.ifc_di(ifc1, 4);
```

For 'ifc.ifc_ci' class, user need to specified the COM Port that is connected to IFC-CI00 and for 'ifc.ifc_di' class, user need to specified the IFC-CI00 in use and also the address for IFC-DI08. Please make sure that the address must be unique and different with other IFC card in the IFC system.

Function Prototype	Example	Summary	Parameter Description	Return Value
void di_c1clr()	**di1.di_c1clr**()	To clear Counter 1 value.		
void di_c1con(bool *on_off*)	**di1.di_c1con**(true)	To configure Counter 1 on IFC-DI08.	*on_off*: True to turn ON Counter 1 and false to turn OFF Counter 1. (bool)	
void di_c1con(int *on_off*)	**di1.di_c1con**(1)	To configure Counter 1 on IFC-DI08.	*on_off*: 1 to turn ON Counter 1 and 0 to turn OFF Counter 1. (int)	
void di_c1con(byte *on_off*)	**di1.di_c1con**(0)	To configure Counter 1 on IFC-DI08.	*on_off*: 1 to turn ON Counter 1 and 0 to turn OFF Counter 1. (byte)	
di_c1val()	**di1.di_c1val**()	To read Counter 1 value.		Counter 1 value in 16-bit. (int)

void di_c2clr()	**di1.di_c2clr**()	To clear Counter 2 value.		
void di_c2con(bool *on_off*)	**di1.di_c2con**(true)	To configure Counter 2 on IFC-DI08.	*on_off*: True to turn ON Counter 2 and false to turn OFF Counter 2. (bool)	
void di_c2con(int *on_off*)	**di1.di_c2con**(1)	To configure Counter 2 on IFC-DI08.	*on_off*: 1 to turn ON Counter 2 and 0 to turn OFF Counter 2. (int)	
void di_c2con(byte *on_off*)	**di1.di_c2con**(0)	To configure Counter 2 on IFC-DI08.	*on_off*: 1 to turn ON Counter 2 and 0 to turn OFF Counter 2. (byte)	
di_c2val()	**di1.di_c2val**()	To read Counter 2 value.		Counter 2 value in 16-bit. (int)
di_read(int *selection*)	**di1.di_read**(8)	To read the digital input of a selected port.	*selection*: Selected input port to read, in range of 1 to 8. (int)	Return the digital input status, true if the digital input status is cleared. (bool)
di_read(byte *selection*)	**di1.di_read**(5)	To read the digital input of a selected port.	*selection*: Selected input port to read, in range of 1 to 8. (byte)	Return the digital input status, true if the digital input status is cleared. (bool)
di_read_all()	**di1.di_read_all**()	To read the all digital input of IFC-DI08.		Return the digital input status in one byte. Bit 0 represent DI_1... and bit 7 represent DI_8. Representative bit clear if the digital input status is cleared. (byte)

ifc_di(ifc.ifc_ci *ifc_ci*, int *address*)	**ifc.ifc_di**(ifc1, 5)	Initializes a new instance of the ifc.ifc_di class using the specified ifc.ifc_ci and address for IFC-DI08.	*ifc_ci*: ifc.ifc_ci in use. *address*: Address for IFC-AI08, in range of 0 to 63. (int)	
ifc_di(ifc.ifc_ci *ifc_ci*, byte *address*)	**ifc.ifc_di**(ifc1, 10)	Initializes a new instance of the ifc.ifc_di class using the specified ifc.ifc_ci and address for IFC-DI08.	*ifc_ci*: ifc.ifc_ci in use. *address*: Address for IFC-AI08, in range of 0 to 63. (byte)	

Table 1 Function Prototype for DI08 card

Prepared by
Cytron Technologies Sdn. Bhd.
19, Jalan Kebudayaan 1A,
Taman Universiti,
81300 Skudai,
Johor, Malaysia.

Tel: *+607-521 3178*
Fax: *+607-521 1861*

URL: *www.cytron.com.my*
Email: *support@cytron.com.my*
sales@cytron.com.my