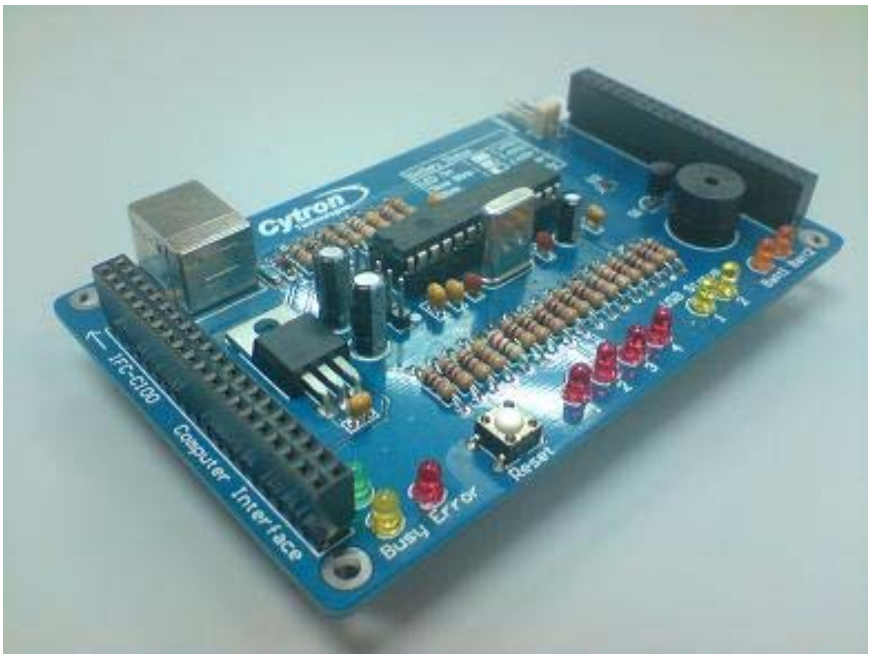
IFC-CI00
Interface Free Controller Computer Interface



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

V1.0

Apr 2009

Function Prototype for Computer Interface (CI00)

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

```
static ifc.ifc_ci ifc1 = new ifc.ifc_ci(74);
```

For 'ifc.ifc_ci' class, user need to specify the COM Port that is connected to IFC-CI00, user need to specified the IFC-CI00 in use.

Function Prototype	Example	Summary	Parameter Description
void ci_buzzer(bool *data*)	**ifc1.ci_buzzer**(true)	To control Buzzer on IFC-CI00.	*data*: True to activate Buzzer and False to deactivate Buzzer. (bool)
void ci_buzzer(int *data*)	**ifc1.ci_buzzer**(1)	To control Buzzer on IFC-CI00.	*data*: 1 to activate Buzzer and 0 to deactivate Buzzer. (int)
void ci_buzzer(byte *data*)	**ifc1.ci_buzzer**(1)	To control Buzzer on IFC-CI00.	*data*: 1 to activate Buzzer and 0 to deactivate Buzzer. (byte)
void ci_iic_speed(byte *data*)		For IFC system internal use.	
void ci_iic_speed(int *data*)		For IFC system internal use.	
void ci_led(byte *data*)	**ifc1.ci_led**(0000)	To control LED 1 to LED 4 on IFC-CI00.	*data*: Bit 0 control LED 1, bit 1 control LED 2, bit 2 control LED 3, and bit 3 control LED 4. Representative bit set to ON LED, clear to OFF. (byte)

void ci_led(int *data*)	**ifc1.ci_led**(1111)	To control LED 1 to LED 4 on IFC-CI00.	*data*: Bit 0 control LED 1, bit 1 control LED 2, bit 2 control LED 3, and bit 3 control LED 4. Representative bit set to ON LED, clear to OFF. (int)
void ci_led1(bool *data*)	**ifc1.ci_led1**(true)	To control LED 1 on IFC-CI00.	*data*: True to ON and False to OFF. (bool)
void ci_led1(int *data*)	**ifc1.ci_led1**(1)	To control LED 1 on IFC-CI00.	*data*: 1 to ON and 0 to OFF. (int)
void ci_led1(byte *data*)	**ifc1.ci_led1**(0)	To control LED 1 on IFC-CI00.	*data*: 1 to ON and 0 to OFF. (byte)
void ci_led2(bool *data*)	**ifc1.ci_led2**(false)	To control LED 2 on IFC-CI00.	*data*: True to ON and False to OFF. (bool)
void ci_led2(int *data*)	**ifc1.ci_led2**(1)	To control LED 2 on IFC-CI00.	*data*: 1 to ON and 0 to OFF. (int)
void ci_led2(byte *data*)	**ifc1.ci_led2**(1)	To control LED 2 on IFC-CI00.	*data*: 1 to ON and 0 to OFF. (byte)
void ci_led3(bool *data*)	**ifc1.ci_led3**(true)	To control LED 3 on IFC-CI00.	*data*: True to ON and False to OFF. (bool)
void ci_led3(int *data*)	**ifc1.ci_led3**(1)	To control LED 3 on IFC-CI00.	*data*: 1 to ON and 0 to OFF. (int)
void ci_led3(byte *data*)	**ifc1.ci_led3**(0)	To control LED 3 on IFC-CI00.	*data*: 1 to ON and 0 to OFF. (int)
void ci_led4(bool *data*)	**ifc1.ci_led4**(false)	To control LED 4 on IFC-CI00.	*data*: True to ON and False to OFF. (bool)
void ci_led4(int *data*)	**ifc1.ci_led4**(0)	To control LED 4 on IFC-CI00.	*data*: 1 to ON and 0 to OFF. (int)

void ci_led4(byte *data*)	**ifc1.ci_led4**(1)	To control LED 4 on IFC-CI00.	*data*: 1 to ON and 0 to OFF. (byte)
void ci_smclr(bool *data*)	**ifc1.ci_smclr**(true)	To control Slave Reset of IFC system.	*data*: True to reset Slave and False to release Slave from reset. (bool)
void ci_smclr(int *data*)	**ifc1.ci_smclr**(1)	To control Slave Reset of IFC system.	*data*: 1 to reset Slave and 0 to release Slave from reset. (int)
void ci_smclr(byte *data*)	**ifc1.ci_smclr**(1)	To control Slave Reset of IFC system.	*data*: 1 to reset Slave and 0 to release Slave from reset. (byte)
ifc_ci(byte *ComPort*)	**ifc1.ifc_ci**(20)	Initializes a new instance of the ifc.ifc_ci class using the specified COM Port.	*ComPort*: The COM Port connected to IFC-CI00. (byte)
ifc_ci(int *ComPort*)	**ifc1.ifc_ci**(14)	Initializes a new instance of the ifc.ifc_ci class using the specified COM Port.	*ComPort*: The COM Port connected to IFC-CI00. (int)
read(byte *address*, byte[] *data_to_write*, out byte[] *data_to_read*)		For IFC system internal use.	
write(byte *address*, byte[] *data_to_write*)		For IFC system internal use.	

Table 1 Function Prototype for CI00

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