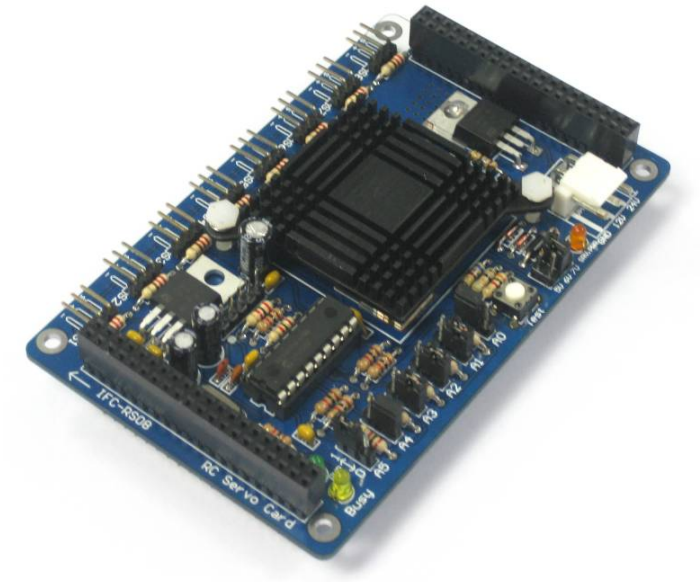
IFC-RS08
Interface Free Controller
RC Servo Card



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

V1.0

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Function Prototype for RC Servo card (RS08)

This document explains the function prototype for controlling IFC-RS08 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-RS08 function prototype. User need to add reference 'ifc_ci.dll' and 'ifc_rs.dll' for IFC-CI00 and IFC-RS08 card in order to control/communicate IFC-RS08 using PC. Please note that before user start the programming, user need to initialize the 'ifc.ifc_ci' and 'ifc.ifc_rs' in order to use the functions to control IFC-RS08. Example of creating a 'ifc.ifc_ci' class called 'ifc1' and 'ifc.ifc_rs' class called rs1:

```
static ifc.ifc_ci ifc1 = new ifc.ifc_ci(74);
ifc.ifc_rs rs1 = new ifc.ifc_rs(ifc1,7);
```

For 'ifc.ifc_ci' class, user need to specified the COM Port that is connected to IFC-CI00 and for 'ifc.ifc_rs' class, user need to specified the IFC-CI00 in use and also the address for IFC-RS08. 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
ifc_rs(ifc.ifc_ci *ifc_ci*, int *address*)	**ifc.ifc_rs**(ifc1, 6)	Initializes a new instance of the ifc.ifc_rs class using the specified ifc.ifc_ci and address for IFC-RS08.	*ifc_ci*: ifc.ifc_ci in use. *address*: Address for IFC-PS01, in range of 0 to 63. (int)	
ifc_rs(ifc.ifc_ci *ifc_ci*, byte *address*)	**ifc.ifc_rs**(ifc1, 7)	Initializes a new instance of the ifc.ifc_rs class using the specified ifc.ifc_ci and address for IFC-RS08.	*ifc_ci*: ifc.ifc_ci in use. *address*: Address for IFC-PS01, in range of 0 to 63. (byte)	
void rs_en(int *servo_channel*, bool *enable*)	**rs1.rs_en**(0, true)	To enable or disable RC servo(s).	*servo_channel*: RC servo channel in range of 0 to 8. 0 to select all, 1 to select S1, 2 to select S2… and 8 to select S8. (int) *enable*: True to enable the selected RC servo(s) and false to disable selected RC servo(s). (bool)	

void rs_en(byte *servo_channel*, bool *enable*)	**rs1.rs_en**(5, true)	To enable or disable RC servo(s).	*servo_channel*: RC servo channel in range of 0 to 8. 0 to select all, 1 to select S1, 2 to select S2... and 8 to select S8. (byte) *enable*: True to enable the selected RC servo(s) and false to disable selected RC servo(s). (bool)	
void rs_pos_sp(int *servo_channel*, int *pos*, int *ramp*)	**rs1.rs_pos_sp**(0, 2000, 150)	To determine position and the speed of selected RC servo.	*servo_channel*: RC servo channel in range of 0 to 8. 0 to select all, 1 to select S1, 2 to select S2... and 8 to select S8. (int) *pos*: RC servo position in range of 0 to 5000, which represent 0.5ms to 2.5ms. (int) *ramp*: Speed of RC servo in range of 1 to 255. 1 is the slowest speed and 255 is the fastest speed. 0 is to select the RC servo default maximum speed. (int)	
rs_read_pos(int *request_servo_channel*)	**rs1.rs_read_pos**(0)	To read the current position of selected RC servo.	*servo_channel*: RC servo channel in range of 1 to 8. 1 to select S1, 2 to select S2... and 8 to select S8. (int)	Return the current value of selected RC servo. (int)
rs_read_pos(byte *request_servo_channel*)	**rs1.rs_read_pos**(8)	To read the current position of selected RC servo.	*servo_channel*: RC servo channel in range of 1 to 8. 1 to select S1, 2 to select S2... and 8 to select S8. (byte)	Return the current value of selected RC servo. (int)

Table 1 Function Prototype for RC Servo Card (RS08)

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