

Dear Customer,

Thanks for choosing ConnectOne for your IoT experience.

The EVMB-ICNR is an iChipNet Ready evaluation kit which will allow you to experience Connect One's iChipNet, a complete IoT end to end solution.

The WiFi module on the EVMB-ICNR has been programmed with special firmware and internal host website specifically designed to allow you to control two Programmable Input Output Controls (PIOCs) located on the EVMB-ICNR board. Using the internal host website you will be able to control the direction of the PIOC (input or Output), force changes on the EVMB-ICNR board while in *output* state, and receive status of the PIOC while in *input* state.

The purpose of this quick guide is to allow you to access the EVMB-ICNR internal host website using Connect One's Device Connectivity Server (DCS) which is a device management application for remote device access.

It is recommended that you be familiar with the basic EVMB User Manual located in Connect One's web site under the "Products" tab ([http://www.connectone.com/?page\\_id=3764](http://www.connectone.com/?page_id=3764)).

The kit includes the following:	EVMB	Evaluation Master Kit
	EVM-iW-SMG2SMT-OB	Evaluation WiFi Daughter Board for iW-SMG2SMT-OB with special ICNR firmware

#### Setup and usage instructions

Please carefully follow the below instructions for the best iChipNet experience:

##### **1. Device Connectivity Server (DCS) account setup**

The DCS is the cloud server to which devices register. It allows remote access to a device for the purpose of control, status and configuration.

- A. Browse to [www.ichipnet.com/managernew](http://www.ichipnet.com/managernew)
- B. Click "Create Account" and follow the instruction until complete
- C. Wait for an activation email, click on the link to access your new DCS account using the account name and password

## 2. iChipNet Ready Evaluation Board setup

Using the supplied power supply, hook up the EVMB-ICNR to the power and turn it on. The EVMM-ICNR is set up as a WiFi Access Point by default.

- A. On your computers' WiFi network connection list search for the EVMB-ICNR Access Point
- B. Once connected to the EVMB-ICNR access point, browse to: 10.0.0.1

## 3. Setting up the EVMB-ICNR for internet connection

Using your local access point connection credential, the EVMB-ICNR will connect to the internet and register itself to the Device Connectivity Server (DCS).

- A. In the WiFi Configuration section please enter the SSID of your local router, the Security type and the Password Phrase
- B. In the Device Connectivity Server section, please enter the account name you created in section 1 above and give your EVMB-ICNR a name.
- C. Click submit.

At this stage, the unit will reset itself into client mode and will use your local access point for Internet connectivity. Upon connecting, the EVMB-ICNR will automatically register itself in the Device Connectivity Server under the account name you have created in section 1 and will use the name you have set in section 3-B.

## 4. Remote device access

Using the Device Connectivity Server for remote device access

- A. Browse to [www.ichipnet.com/managernew](http://www.ichipnet.com/managernew)

- B. Enter your account name and password and click "Log In"

The Device Connectivity Server will access your account and will show the registered device.

Clicking the icon under "Host Site" will access the EVMB-ICNR internal web site. You are now connected to your EVMB-ICNR remotely through the internet and are able to access it from any place that has an internet connection.

## 5. EVMB-ICNR Host Website

WiFi Configuration	GPIO Pins	Device Connectivity Server	Identity
SSID: <input type="text"/>	PIOC4: Output <input checked="" type="radio"/> <input type="radio"/>	Account name: <input type="text"/>	PSN: 12345678 ← EVMB-ICNR Module Serial number
Security type: Open	PIOC5: Input <input checked="" type="radio"/> <input type="radio"/>	Device name: <input type="text"/>	IP addr: 192.168.2.101 ← EVMB-ICNR IP Address
Pass Phrase: <input type="text"/>		<input type="button" value="Submit"/>	MAC: 0003941C33A6 ← EVMB-ICNR Module MAC address

The GPIO pins corresponds to the ones on the EVMB.

By default, PIOC4 is set to output and PIOC5 is set to input. Changing the PIOC direction will require EVMB reset in order for the change to be set on the EVMB.

A. Controlling the state of PIOC4

Press the on/off icon and check status of the LED next to PIOC4 on the EVMB

B. Controlling the state of PIOC5

Press the switch next to the PIOC5 on the EVMB-ICNR and check the status of the LED image next to the PIOC5 on the EVMB-ICNR host web site.

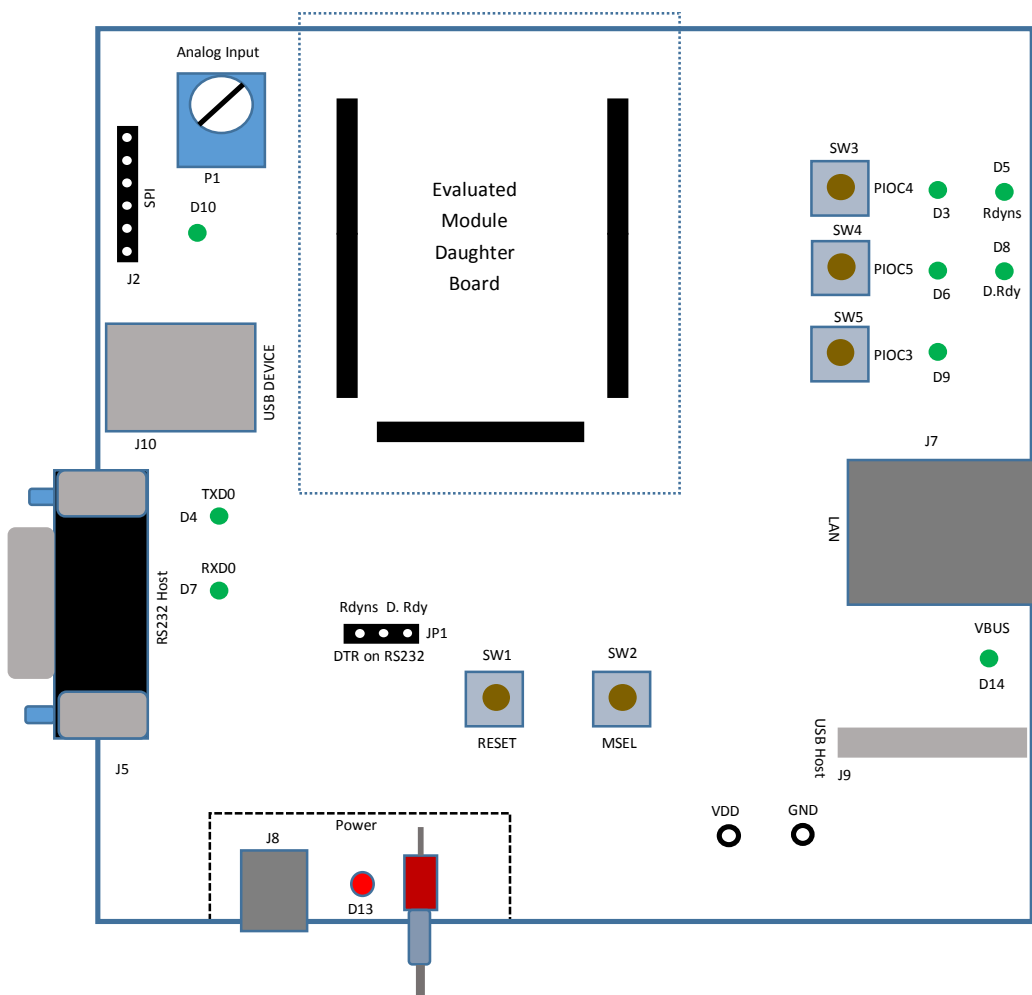
Press the PIOC3 switch on the EVMB-ICNR to reset the state of the input and check the changes on the led image next to the PIOC5 on the EVMB-ICNR host web site

C. Changing the PIOC direction

Use the direction selectors to change the PIOC direction. After changing direction, the EVMB-ICNR will reset itself and the change will be shown on the EVMB-ICNR host website after 20 sec. An on/off icon will be shown next to the PIOC that is set as an output.

6. EVMB-ICNR layout

Please refer to the EVMB user manual for further detailed information about the board functionalities.



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