

## Using Customer-Supplied SIM Cards with Eagle Eye Cabinet Systems

2025-06-30 Revision 1.0

### Target Audience

This Application Note is intended for users of Eagle Eye Cabinet Systems that prefer to supply their own SIM card and cellular plan rather than the card and service provided via Eagle Eye Networks.

### Introduction

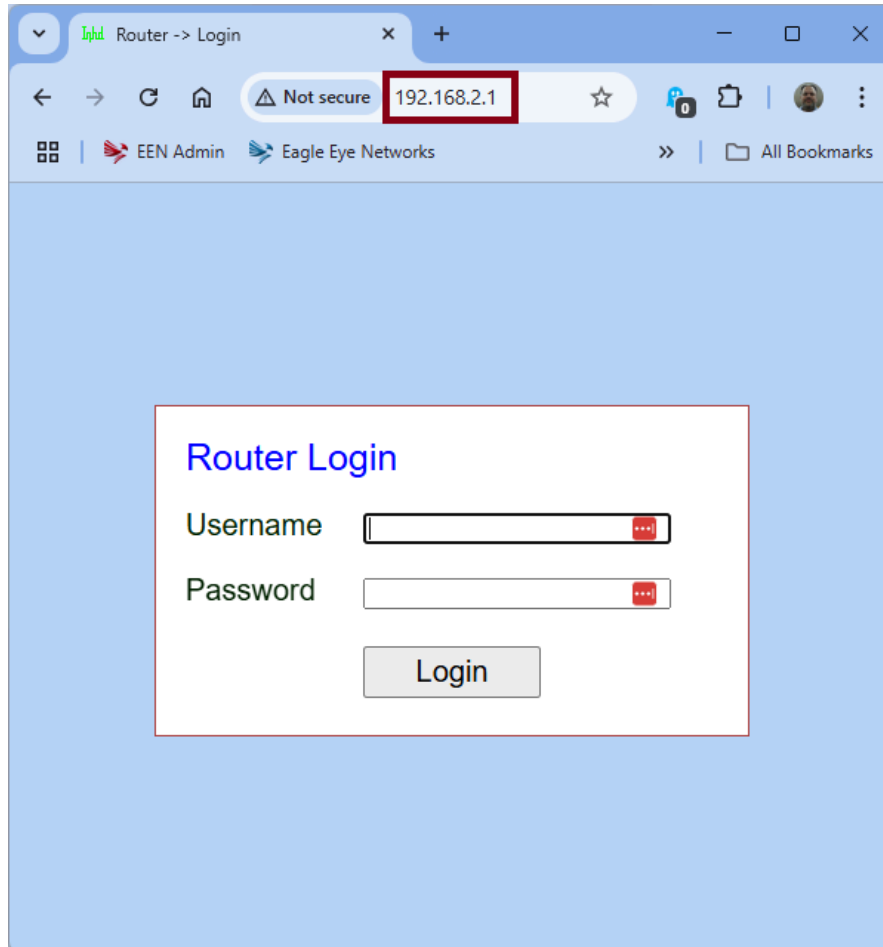
The router in the cabinet system has two SIM card slots for two channels. To set up the router with a SIM card, users need an activated SIM card from a cellular provider, a computer with a LAN cable, and direct physical access to the cabinet system.

The step-by-step instructions are listed in the following sections.

# InHand Cellular Setup

Follow the instructions in this section to correctly set up the router on an Eagle Eye Cabinet System with a SIM card.

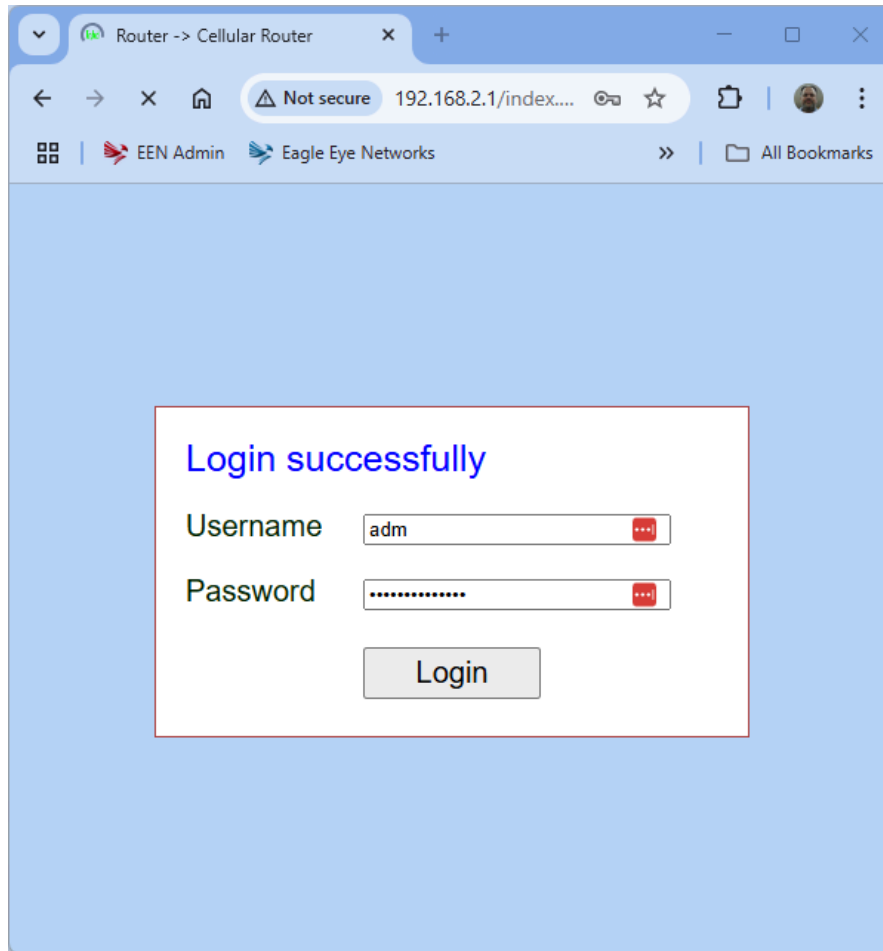
1. Connect the laptop to one of the Ethernet ports on the "inhand" router. Open a web browser and navigate to <http://192.168.2.1>



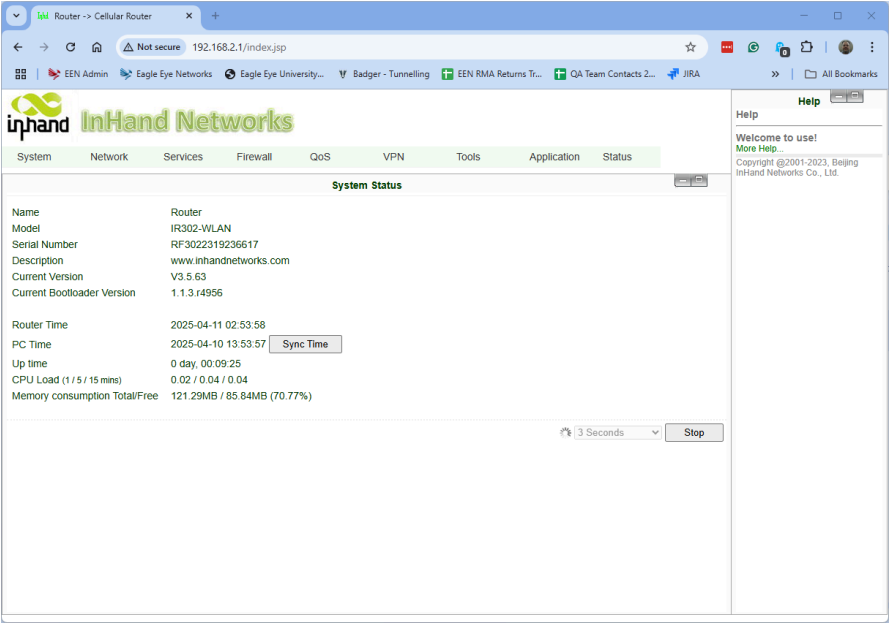
2. Enter the username and password. The username is **adm**. The password will be the serial number of the router followed by an exclamation mark. (e.g., RF3022319236617!) Older units (manufactured before June 2024) might have the password of Eagle23soaring.

The screenshot shows a web browser window with the title "Router -> Login". The address bar displays "192.168.2.1" and a "Not secure" warning. The browser's bookmark bar includes "EEN Admin" and "Eagle Eye Networks". The main content area is light blue and contains a white login form titled "Router Login". The form has two input fields: "Username" with the value "adm" and "Password" with masked characters (dots). Both fields have red "x" icons to the right. Below the fields is a "Login" button.

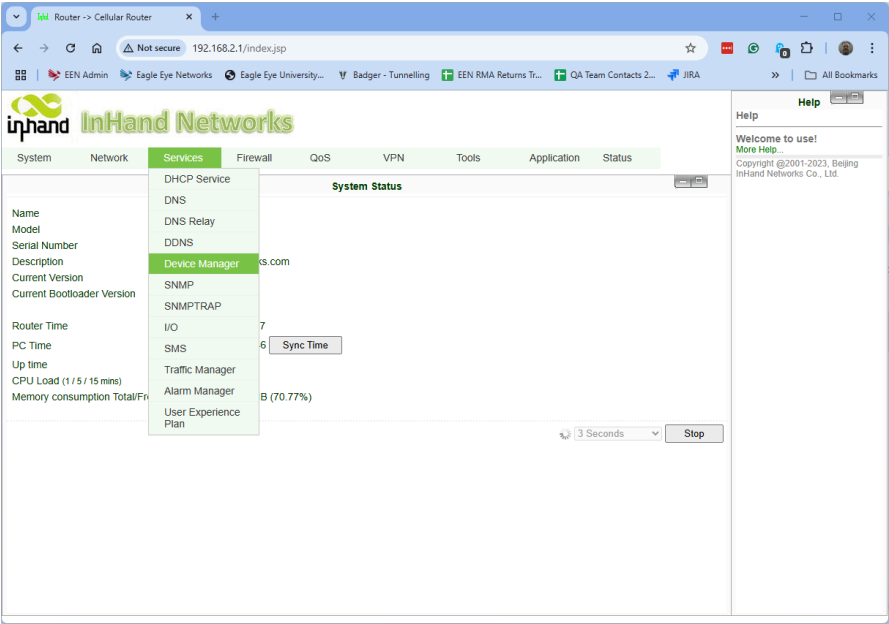
3. You should see the message: Login successfully.



4. The following screen opens.



5. Click **Services**, then **Device Manager**.



6. Verify that the Device Manager is enabled with the server set to [iot.inhandnetworks.com](http://iot.inhandnetworks.com). There should be an een.com email account already available, but if not, enter [cellrouter@een.com](mailto:cellrouter@een.com) to connect to Eagle Eye's management service. Click **Apply**.

The screenshot shows a web browser window with the URL [192.168.2.1/index.jsp](http://192.168.2.1/index.jsp). The page is titled "InHand Networks" and features a navigation menu with tabs: System, Network, Services, Firewall, QoS, VPN, Tools, Application, and Status. The "Device Manager" tab is selected. The "Device Manager" configuration section includes the following fields:

- Enable:** A checkbox that is checked.
- Service Type:** A dropdown menu set to "Device Manager".
- Server:** A dropdown menu set to "iot.inhandnetworks.com".
- Secure Channel:** A checkbox that is unchecked.
- Registered Account:** A text input field containing "mschmidt@een.com". To the right of the field is a red button labeled "Sign up/Sign in".
- LBS Info Upload Interval:** A text input field set to "1" with a unit selector set to "Hours".
- Series Info Upload Interval:** A text input field set to "1" with a unit selector set to "Hours".
- Channel Keepalive:** A text input field set to "30" with a unit selector set to "Seconds".

At the bottom of the configuration section are two buttons: "Apply" and "Cancel". On the right side of the page, there is a "Help" section with a "Device Manager" link and a "More Help..." link. Below these links, it states "Copyright ©2001-2023, Beijing InHand Networks Co., Ltd."

7. Next click **Network**, then **Cellular**.

The screenshot shows a web browser window with the URL `192.168.2.1/index.jsp`. The page is titled "InHand Networks" and features a navigation menu with tabs: System, Network, Services, Firewall, QoS, VPN, Tools, Application, and Status. The "Network" tab is selected, and the "Cellular" sub-tab is active. The main content area is titled "Device Manager" and contains the following configuration options:

- Enable: WAN/LAN Switch
- Service Type: LAN
- Server: Switch WLAN
- Mode: inhandnetworks.com
- Secure Chanr: WLAN
- Registered Ac: chmidt@een.com
- Link Backup: [ ] Hours
- VRRP: [ ] Hours
- Series Info Up: [ ] Hours
- Channel Keep: IP Passthrough
- Static Route: [ ] Seconds

At the bottom of the configuration area are "Apply" and "Cancel" buttons. On the right side of the page, there is a "Help" section titled "Device Manager" with a "More help" link and copyright information: "Copyright ©2001-2023, Beijing InHand Networks Co., Ltd."

8. The following screen opens.

**inhand InHand Networks**

System Network Services Firewall QoS VPN Tools Application Status

### Cellular

Enable ☒

Time Schedule [ALL] ▾ Schedule Management

Force Reboot ☒

Shared Connection(NAT) ☒

Default Route ☒

Enable Dual Cellular Interface ☐

SIM1 Network Provider [T-mobile (best+mobile.com)] ▾ Manage

Network Select Type [Auto] ▾

Connection Mode [Always Online] ▾

Redial interval [30] Seconds

Show Advanced Options ☒

Dual SIM Enable ☒

SIM2 Network Provider [Profiles 1] ▾ Manage

SIM2 Binding ICCID [ ]

SIM2 PIN Code [ ]

SIM2 SIM Card Operator [Auto] ▾

Main SIM [SIM1] ▾

Max Number of Dial [5]

CSQ Threshold [8]

Min Connected Time [8] Seconds(0: disable)

Initial Commands [All] ▾

Binding ICCID [ ]

LTE Band Config [ALL] ▾ Add ALL

GSM/GCDMA Band Config [ALL] ▾ Add ALL

PIN Code [ ]

Static MTU ☐

SIM Card Operator [Auto] ▾

User Peer DNS ☒

Link Detection Interval [30] Seconds(0: disable)

Debug ☐

ICMP Detection Mode [Ignore Traffic] ▾

ICMP Detection Server [8.8.8.8]

ICMP Detection Interval [30] Seconds

ICMP Detection Retries [30] Seconds

ICMP Detection Retries [5]

### Profiles

Index	APN	Access Number	Authentication Type	Username	Password
1		*99#	Auto		

[Add]

[Apply] [Cancel]

9. Ensure that the box for Dual SIM Enable is not checked. Change the SIM1 Network Provider setting to the provider you plan on using. Click **Apply** to save and restart the services.

The screenshot displays the InHand Networks Cellular Router configuration interface. The main settings area includes options for enabling the cellular network, scheduling, and connection management. The 'SIM1 Network Provider' is set to 'Profiles 1'. The 'Network Select Type' is 'Auto', and the 'Connection Mode' is 'Always Online'. The 'Redial Interval' is set to 30 seconds. The 'Show Advanced Options' section includes settings for 'Dual SIM Enable' (unchecked), 'Initial Commands', 'Binding ICCID', 'LTE Band Config', 'GSM/WCDMA Band Config', 'PIN Code', 'Static MTU', 'SIM Card Operator', 'Use Peer DNS', 'Link Detection Interval', 'Debug', 'ICMP Detection Mode', 'ICMP Detection Server', 'ICMP Detection Interval', 'ICMP Detection Timeout', and 'ICMP Detection Retries'. The 'Profiles' section contains a table with the following data:

Index	APN	Access Number	Authentication Type	Username	Password
1		1994	Auto		

The 'Apply' and 'Cancel' buttons are located at the bottom of the configuration page.

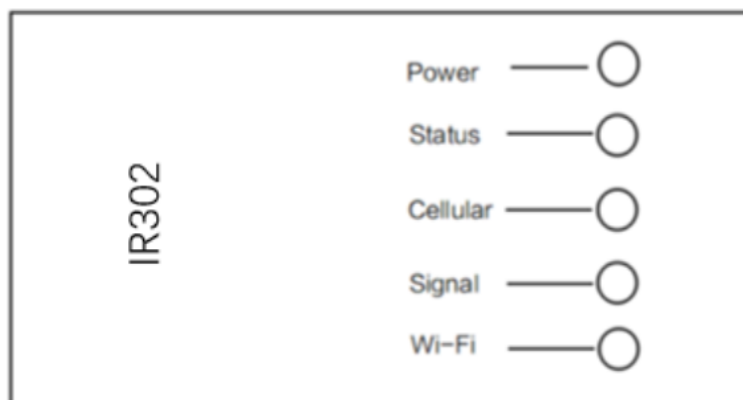
## Conclusion

After these few steps the router is active and set for the Network Provider you set.

For additional information the Quick Start Guide for the inhand cellular router can be found here [IR302 Quick Start Guide](#)

Use the figure below and Table 1 to verify the status of your router.

## LED Indicator Description



**Table 1: Equipment LED Light Description Table**

Power (Red)	Status (Green)	Cellular (Yellow)	Definition
Off	Off	Off	No Power
On	Off	Off	System Fault
On	On	Off	Module or SIM Card not identified
On	On	Flash	Dialing
On	On	On	Dialing Success
On	Flash	On	System Upgrade
On	Flash → On	Off	Finalized Writing → Finalized Writing

Note:

Signal	Red	Signal values 0~10
	Yellow	Signal value 11~20
	Green	Signal value 21~30
Wi-Fi (Green)	Not enabled	Off
	AP	Flash
	STA	Flash

