

PARADOX

IP150M

Internet Module



INSTALLATION MANUAL

V6.50.000

THINGS YOU SHOULD KNOW for V6.50.000, PLEASE READ:

- **PAID Swan SITE required with IP150 V6.50.000 for all communications including remote service with BabyWare, Infield, and NEware.** Serial connection is still supported (no fee).
- Reporting to IPC10 **does not** require an MQTT Swan paid site.
- Upgrading the IP150 to the MQTT version is **irreversible. You cannot return to the legacy Swan connection.**
- MQTT and TURN modules are not supported on the same panel for Swan communication.
- **The IP150M reports to IPC10 variants ONLY** (make sure the panel is set to Contact ID).
- You can configure static IP in the BlueEye installer menu.
- The IP150M supports up to two IPC10 reporting receivers.
- Insite Gold will not connect to the IP150M, use BlueEye only.
- Combo configuration is **not supported** in MQTT reporting; the PCS port is not enabled.
- The I/O outputs are disabled.
- Please note that if you have any HD78 or HD88 cameras, please **do not** upgrade the site to MQTT as they will not be supported.

Thank you for choosing Paradox Security System products. The following manual describes the connections and programming for the IP150M Internet Module. For any comments or suggestions, send an email to manualsfeedback@paradox.com.

Introduction

The IP150M Internet Module provides access to Paradox systems. The IP150M reports only to the IPC10 Paradox receiver/converter and BlueEye, based on MQTT technology making it stable, fast, and reliable. The IP150M is remotely upgradeable from InField and the BlueEye application. It supports all Paradox + panels and should operate with most Paradox panels produced after 2012.

Before You Begin

Make sure you have the following to configure your IP150M Internet Module:

- Router
- 4-pin serial cable (included)
- CAT5 Ethernet cable (maximum 90m (295 ft.), not included)
- BlueEye app installed on a smartphone
- Connect IP150M to the serial port on your panel and Ethernet port of your router

Installation

IP150M

The IP150M should be installed in the panel metal box enclosure to be tamper-protected. Clip the IP150M to the top of the metal box, as shown in Figure 1.

Serial to the Panel

Connect the serial output of the IP150M to the Serial port of the Paradox panels. If it is Paradox + Series, connect it to Serial1 the main reporting channel, as shown in Figure 4. If the panel is powered up, the onboard LEDs will illuminate to indicate the IP150M's status.

Ethernet

Connect the Ethernet cable to an active Ethernet socket and the left side of the IP150M, as shown in Figure 4.

Metal Box

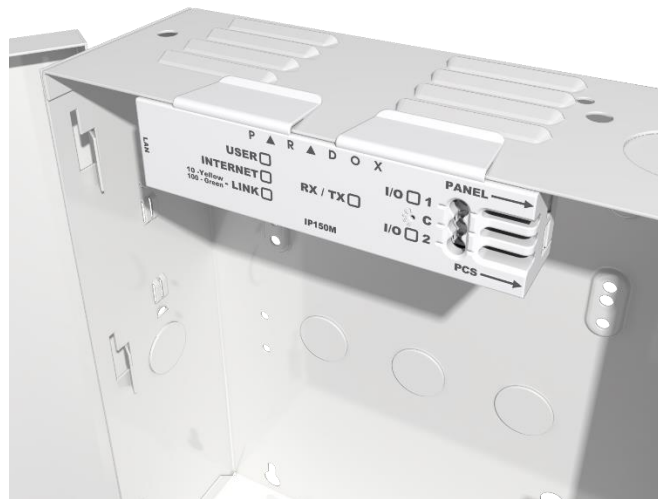


Figure 1

Attaching the IP150M to the Panel

To connect the IP150M, plug in the Serial cable to the panel, refer to Figure 4. After a few seconds, the RX/TX LED starts flashing; this indicates that the IP150M is powered and is communicating with the panel.

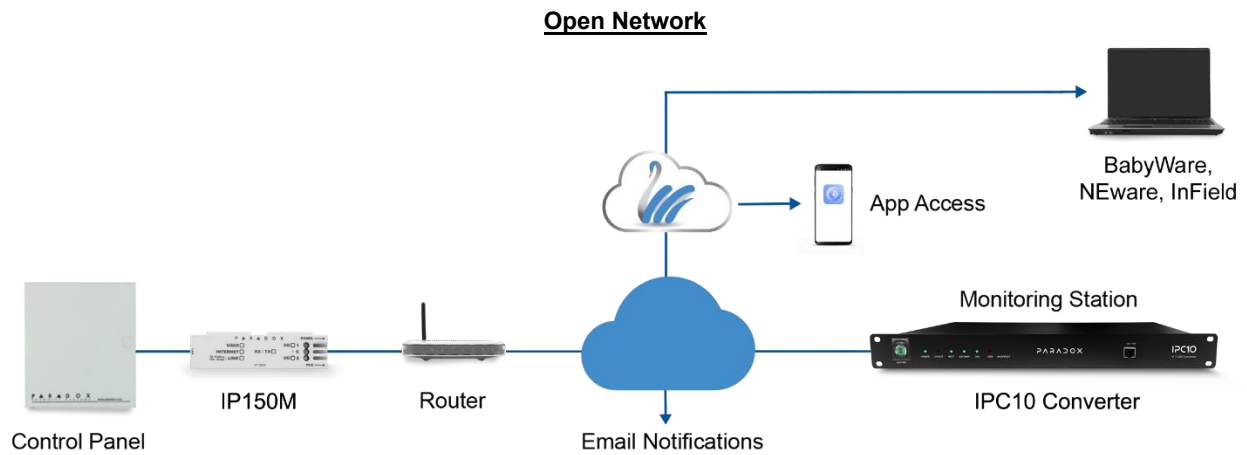


Figure 2

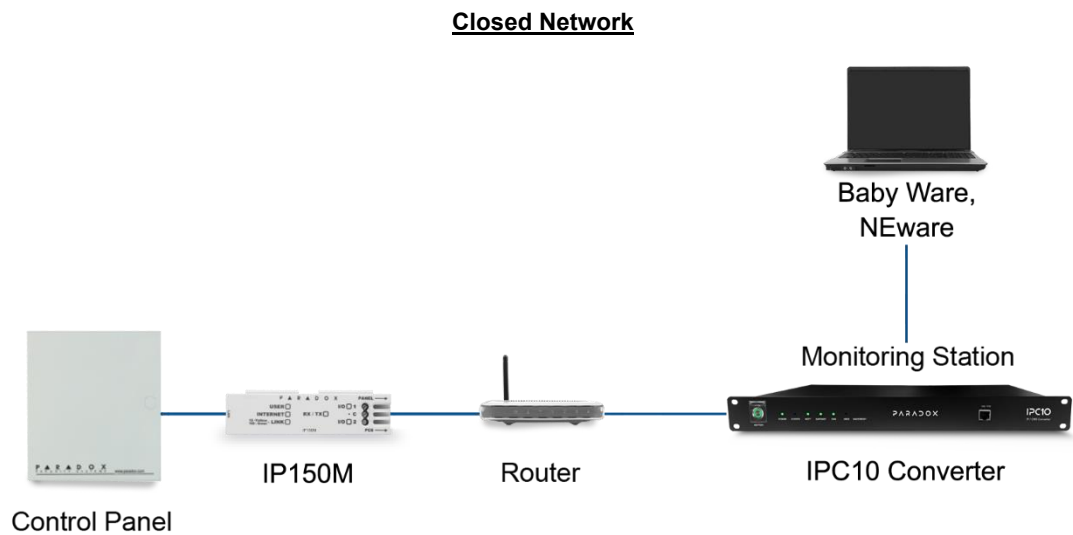


Figure 3

IP150M Overview

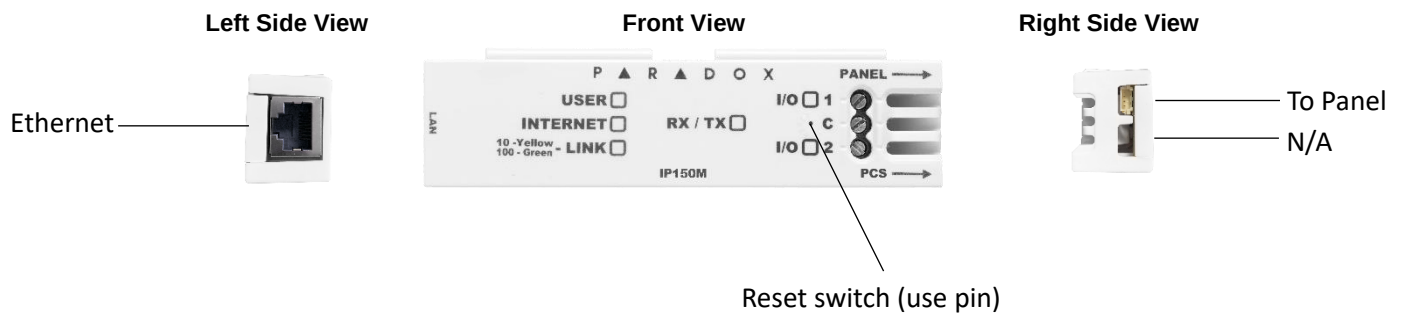


Figure 4

LED Indicators

LED	Description
User	Green - On when a user is connected via BlueEye/BabyWare/InField/NEware.
Internet	ON - Connected to the internet and connected to Swan-Q. Flashing every 1 second - connected to the internet, not connected to Swan-Q (no site token). OFF - no internet
Link	ON - Connected to Ethernet (Green 100mbps Orange 10mbps)
RX/TX	ON - when connected to the panel Flashes when data is transmitted or received through/from the panel. OFF when no connection to the panel.
I/O 1	N/A
I/O 2	N/A

Connectivity - Port Settings

When connecting to most routers, the IP150M will automatically connect, and nothing needs to be configured. Should you have issues connecting, please make sure that the ISP, router/firewall is not blocking the following ports. They need to be permanently open (TCP/UDP, and inbound and outbound).

Port	Description (used for)
UDP 53	DNS
UDP 123	NTP
UDP 5683	COAP (backup)
TCP 8883	MQTT port SWAN and IPC10 receiver
TCP 443	OTA (firmware upgrade + certificate download)
TCP Port 465, 587	Usually for email server, may differ depending on the email server used.

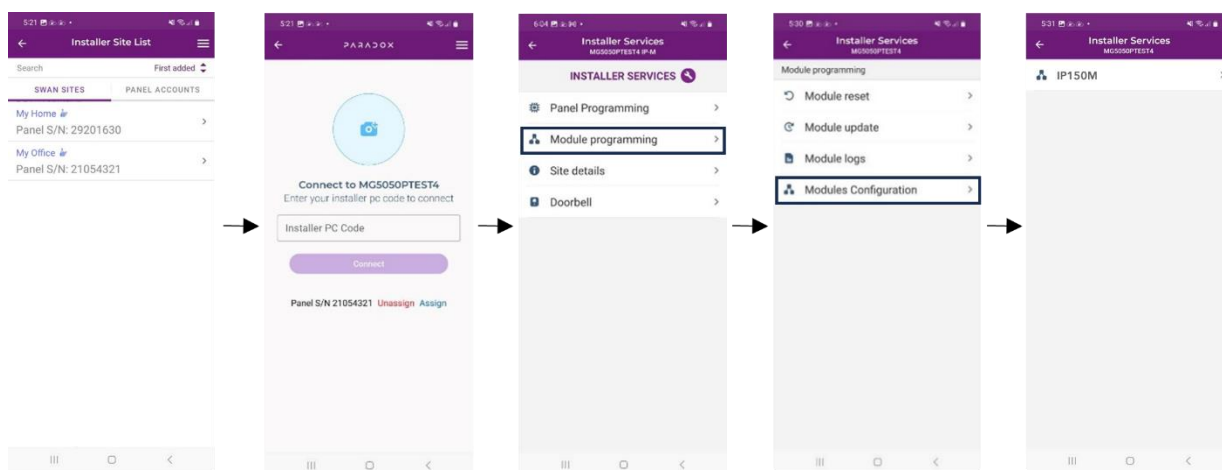
Creating a Site

- 1) Open the **BlueEye** app.
- 2) Select **Menu**, and then select **Installer Menu**.
- 3) Press on the 3-dot menu and select **Create New Site**.
- 4) Enter the Panel SN, Site Name, and email address.
- 5) Tap on **Create New Site**.
- 6) The site is created.

Configuring the IP150M Using BlueEye

Configuring IP150M in a Connected Site

- 1) Open the **BlueEye** app.
- 2) Select **Menu** and then **Installer Menu**; the Installer Site List screen will be displayed.
- 3) Select the Site.
- 4) Enter the Installer PC code of the panel (same as the PC Password in BabyWare, default 0000).
- 5) Select the **Modules Programming** option from the Installer Services tab.
- 6) Select **Module Configuration**.
- 7) Select IP150M.



Configuration:

Reporting to the IPC10 Receiver in open networks (internet available)

To configure reporting, enter panel programming via keypad or BabyWare. Enter the CMS account number, IP address(es) of the receiver(s), Port, and security profiles (2-digit number), that indicate the supervision time. Up to two receivers can be used to report with the IP150M. If you are currently reporting to four receivers, once you upgrade to an IP150M, you will no longer be able to configure or report to four receivers.

Security Profiles

Security profiles cannot be modified.

ID	Supervision
01	1200 seconds
02	600 seconds
03	300 seconds
04	90 seconds

Setting Up IP Reporting at Keypad or BabyWare

NOTE: The IP150M can only report in CID format, make sure reporting is set to CID (Ademco contact ID).

- 1) Ensure the panel's report code format is set to Ademco Contact ID:
 MG/SP: section **[810]**
Enter value 4 (default)
 EVO/EVOHD+: section **[3070]**
Enter value 5
- 2) Enter the IP reporting account numbers (one for each partition):
 MG/SP: section **[918]** / **[919]**
 EVO: section **[2976]** to **[2978]**
 EVOHD+ section **[2976]** Receiver 1 Main
 Note: For EVOHD+ panels, Receiver 2 Backup and Receiver 3 Parallel automatically assume the account number of Receiver 1 Main and cannot be modified.
- 3) Enter the monitoring station's IP address(es), IP port(s), and security profile(s) (information must be obtained from the monitoring station).

Note: The IP150M can report only to two receivers.

MG/SP Sending IP Credentials to Receiver			
IP Receiver	#1	#2	#3
Save and Send/Status	[935]	[942]	[949]

EVO/EVOHD+ Sending IP Credentials to Receiver			
IP Receiver	Main	Parallel	Backup
Save and Send/Status	[2985]	[2987]	[2989]

MG/SP Sections			
IP Receiver	#1	#2	#3
IP Address 1	[929]	[936]	[943]
IP Port 1	[930]	[937]	[944]
IP Profile	[934]	[941]	[948]

EVOHD+			
IP Receiver	Main #1	Backup #2	Parallel #3
IP Address 1	[2984]	[2986]	[2988]
IP Port 1	↓	↓	↓
IP Profile	↓	The IP profile for this receiver is the same as the Main receiver IP profile.	

EVO Sections			
IP Receiver	#1	#2	#3
IP Address 1	[2984]	[2986]	[2988]
IP Port 1	↓	↓	↓
IP Profile	↓	↓	↓

Email Configuration (only with open networks)

Configure the IP150M's email server settings. Please note that emails are not supported in a closed network configuration.

Email Addresses

You can configure your IP150M to send email notifications to up to **four** email addresses to receive notification of system events.

To configure an email address:

- 1) In the **BlueEye** app, Installer Menu, Module Configuration section, enable the Address toggle button.
- 2) Enter the Email address. Use the test button to verify that the recipient's address is correct.

- 3) Select the Areas and Event groups that generate email notifications.

The screenshot shows the 'Installer Services' app interface. Under 'Email Configuration', there are fields for 'Outgoing Server (SMTP)', 'Port' (set to 465), and 'Authentication (Optional)' with 'User Name' and 'Password' fields. Below this is the 'Email Addresses 1/4' section. 'Address 1' has an 'Email' field and a 'Test' button. Under 'Select Areas', there are buttons for '1' and '2'. Under 'Select Events', there are buttons for 'Arms/Disarms/Alarm' and 'Troubles'.

NOTES:

- Enter the username without the @domain.
- Sending emails is not supported in closed networks (custom SMTP not supported).

Reporting to the IPC10 Receiver in closed networks (no internet)

Reporting in a closed network requires IPC10 V1.01.000 (and up), and BabyWare V5.6.44 (and up) for connection/configuration. The below will be valid only if the internet is not available on the connected network.

When IP150M is connected to the network without internet access, it will enable web page access. With a PC connected to the same local network of the IPC10 and the devices, use BabyWare, select Static IP connection type, and use the scan feature to find the IP of the IP150M modules. A list of Paradox IP devices will appear (IP150+, IP150, and IP180 with supported versions) with their IP addresses and their serial numbers.

The screenshot shows the 'Settings' window in BabyWare. The 'Connection' tab is active. Under 'Select a connection type', 'Static IP' is selected. The 'IP Address' field is set to '192.168.0.1'. The 'IP Port' is '10000'. The 'IP Module Password' field is empty. A blue arrow points from the 'IP Address' field to a 'Locate IP Device on Network' dialog box. This dialog box shows a table of detected devices on the network.

Site Name	Device	IP Address	Port	Mac Address	Serial #	DHCP
Your Paradox System	IP150+	192.168.88.60		00:19:8A:15:D1:6F	72021428	yes
Your Paradox System	IP150+	192.168.88.74	10000	00:19:8A:12:D0:6E	72001CF1	yes
Your Paradox System	IP150+	192.168.88.76		00:19:8A:15:D1:91	7202144A	yes
Your Paradox System	IP150+	192.168.88.96		00:19:8A:12:83:0D	7200000D	yes
Your Paradox System	IP150+	192.168.88.171		00:19:8A:12:85:02	72000015	no
Your Paradox System	IP150+	10.30.0.14		00:19:8A:12:83:0E	7200000E	yes
Your Paradox System	IP150+	10.30.0.39		00:19:8A:15:19:C1	720197D1	yes
Your Paradox System	IP150	192.168.88.70	10000	00:19:8A:10:C3:98	7108FC06	yes
Your Paradox System	IP150	192.168.88.64	10000	00:19:8A:11:9F:C4	7108B46C	yes
Your Paradox System	IP150	192.168.88.61	10000	00:19:8A:10:C1:C8	7108FB76	yes
Your Paradox System	IP150	192.168.88.69	10000	00:19:8A:11:90:4C	71097C39	yes
Your Paradox System	IP150	192.168.88.68	10000	00:19:8A:10:C1:F3	7108FB95	yes
Your Paradox System	IP150	192.168.88.67	10000	00:19:8A:10:D8:53	7109038D	yes
Your Paradox System	IP150	192.168.88.63	10000	00:19:8A:11:A2:72	7109873B	yes
Your Paradox System	IP150	10.30.0.16	10000	00:19:8A:10:C1:C9	7108FB77	yes
Your Paradox System	IP150	10.30.0.23	10000	00:19:8A:11:9F:88	71098463	yes

At the bottom of the dialog, it says 'IP Device Detected: 23'. There are 'Cancel', 'Configure', and 'Refresh' buttons. The 'OK' button is highlighted with a green checkmark.

Enter the IP address of the device you wish to configure in a web browser. Enter the Installer PC Code of the panel (same as the PC Password in BabyWare, default 0000).

From the web interface, once connected to the web page, disable the Swan connection as shown below, and disable DHCP if needed. If DHCP is disabled and unable to connect with the device, reset to default will enable DHCP.

To configure reporting, enter panel programming via keypad or BabyWare (serial port). Enter the CMS account number, IP address(es) of the receiver(s), Port, and security profiles (2-digit number), that indicate the supervision time. Up to two receivers can be used to report with the IP150M. If you are currently reporting to four receivers, once you upgrade to an IP150M, you will no longer be able to configure or report to four receivers.

After the reporting configuration is finalized (panel registered to an IPC10), a panel connection with BabyWare can be established following one of the next procedures.

Option 1

To connect with BabyWare follow the below steps:

1. Open the Account page and select the IPC Server option.
2. Enter the Label of the IPC10 receiver, the IP of the IPC10, and the Port (8883 default).
3. Select the Scan Panel option and follow the messages on the screen.
4. From the list of the IPC Server Group, you can now connect to the panel of your choice.

Option 2

1. Open the Account page and add an account.
2. Select the Connection tab.
3. Select the option MQTT Close Network Connection via IPC10.
4. Enter the IPC10 IP Address, IPC10 Port, and Panel SN.
5. Select OK and add the Panel ID, PC Password, and connect to the panel.

Settings

Connection Advanced Encryption Alarm System Label

Select a connection type

- ☐ Panel S/N
Use if the comm. module is connected to Swan
- ☐ Site ID and Email address
Use if a Swan site is created on the system
- ☐ Site Token
Use if a Swan site is created on the system
- ☐ Static IP
- ☐ Serial
COM Port
- ☐ GPRS/Static
SIM card with Static IP
- ☐ GPRS/Private Network Call back
- ☐ Modem
- ☒ MQTT Close Network Connection via IPC10

IPC10 IP Address: 0 . 0 . 0 . 0

IPC10 Port: 0

Panel SN: 05080071

Important

In order to connect with Babyware in closed network (using the above settings), it is required to first register an account via keypad or serial (USB307) programming, to the IPC10 receiver that will be used for the Babyware connection.

NOTE: Configuring reporting with BabyWare will require a serial port connection, with a 307USB.

Firmware Upgrade

- 1) Firmware upgrading is available from the BlueEye app using the Installer Menu, (or Infield software).
- 2) Select the site from the sites list.
- 3) Enter the PC password in the field and press **Connect**.
- 4) Select **Modules Programming**.
- 5) Select **Modules Updates**.
- 6) Select **IP150M**.
- 7) The list of firmware available will appear, select the firmware to use.

Reset IP150M to Default Settings

To reset the IP150M module to its default settings, ensure that the module is turned on and then insert a pin/straightened paper clip (or similar) into the pinhole located between the two I/O LEDs. Press down gently until you feel some resistance; hold it down for approximately five seconds. When the I/O and RX/TX LEDs start flashing, release it, and then press it again (Figure 4). The I/O and RX/TX LEDs will remain lit during the reset.

Technical Specifications

The following table provides the technical specifications for the IP150M Internet Module.

Specification	Description
Panel Compatibility	Compatible with EVOHD+, SP+, MG+, and most Paradox panels produced after 2012
Upgrade	Remotely via InField or BlueEye app
IP Receiver	IPC10 up to two supervised receivers simultaneously direct supervised encrypted independent connections
Encryption	AES 128-bit
IPC10 to CMS Output Format	MLR2-DG, Ademco 685, or Ademco CID-TCP
Current Consumption	100 mA
Operating Temperature	-20°C to +50°C (-4°F to 122°F)
Input Voltage	10V to 16.5 Vdc, supplied by the panel serial port
Enclosure Dimensions	10.9 x 2.7 x 2.2 cm (4.3 x 1.1 x 0.9 in)
Approvals	CE, EN 50136-1, EN 50136-2

Warranty

For complete warranty information on this product, please refer to the Limited Warranty Statement found on the Web site www.paradox.com/Terms. or contact your local distributor. Specifications may change without prior notice.

Patents

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