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PARADOX IP150plus MQ Internet Module

Specifications

- Model: IP150+MQ

- Version: V6.15.000
- Connectivity: Ethernet
- Ports: UDP 53, UDP 123, UDP 5683, TCP 8883, TCP 443, TCP Port 465, 587

Attaching the IP150+MQ to the Panel

To connect the IP150+MQ, follow these steps:

1. Plug in the Serial cable to the panel.
2. Refer to Figure 4 for guidance.
3. Wait for the RX/TX LED to start flashing, indicating successful power and communication.

Creating a Site

1. Open the BlueEye app.
2. Select the Menu and then the 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 to complete the process.

Configuring the IP150+MQ Using BlueEye

To configure the IP150+MQ in a connected site:

1. Open the BlueEye app.
2. Select the Menu and then the Installer Menu.
3. Select the desired Site from the Installer Site List screen.
4. Enter the Installer PC code of the panel (default 0000).
5. Select Modules Programming from the Installer Services tab.
6. Select Module Configuration and then IP150+MQ.

Configuration for Reporting to IPC10 Receiver

In open networks with the internet available:

1. Access panel programming via keypad or BabyWare.
2. Enter the CMS account number, IP address(es) of the receiver(s), Port, and security profiles.
3. Up to two receivers can be used for reporting with the IP150+MQ.
4. **Note:** If currently reporting to four receivers, upgrading to IP150+MQ will limit configuration/reporting to two receivers only.

Thank you for choosing Paradox Security System products. The following manual describes the connections and programming for the IP150+MQ Internet Module. For any comments or suggestions, send an email to manualsfeedback@paradox.com

Introduction

The IP150+MQ Internet Module provides access to Paradox systems. The IP150+MQ reports only to the IPC10 Paradox receiver/converter and BlueEye, based on MQTT technology, making it stable, fast, and reliable.
The IP150+MQ is remotely upgradeable from InField and the BlueEye application. It supports all Paradox + panels and should operate with most Paradox panels produced after 2012.

THINGS YOU SHOULD KNOW, PLEASE READ:
While the IP150+MQ (MQTT) programming is similar to the IP150,+ there are some differences you should know:

- You can configure static IP in BlueEye installer menu for BlueEye, but BlueEye does not support static IP connection and IP150+MQ must have internet connection.
- IP150+MQ reports in Contact ID format only to the IPC10 (make sure the panel is set to Contact ID reporting), and from IPC10 to CMS MLR2-DG, Ademco 685, or Ademco CID-TCP.
- IP150+MQ supports and supervises up to two IPC10 reporting receivers.
- When IP150+MQ (MQTT) is connected, only the BlueEye application will connect; Insite Gold will not connect to the IP150+MQ.
- PCS port is not enabled, and he combo configuration is not supported in MQTT reporting.
- I/O outputs are not enabled.

NOTE: Please make sure the reporting format is set to CID. The IPC10 can only receive the CONTACT ID format.

Before You Begin

Make sure you have the following to configure your IP150+MQ Internet Module:

- Router
- 4-pin serial cable (included)
- CAT5 Ethernet cable (maximum 90m (295 ft.), not included)
- BlueEye app installed on a smartphone
- Connect IP150+MQ to the serial port on your panel and the Ethernet port of your router

Installation

IP150+MQ

The IP150+MQ should be installed in the panel metal box enclosure to be tamper-protected. Clip the IP150+MQ to the top of the metal box, as shown in Figure 1.

Serial to the Panel

Connect the serial output of the IP150+MQ to the Serial port of the Paradox panels. If it is Paradox + Series, connect it to Serial1 as it is the main reporting channel, as shown in Figure 4. If the panel is powered up, the on-board LEDs will illuminate to indicate the IP150+MQ's status.

Ethernet

Connect the Ethernet cable to an active Ethernet socket and the left side of the IP150+MQ, as shown in Figure 4.

Metal Box

Attaching the IP150+MQ to the Panel

To connect the IP150+MQ, 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 IP150+MQ is powered and is communicating with the panel.
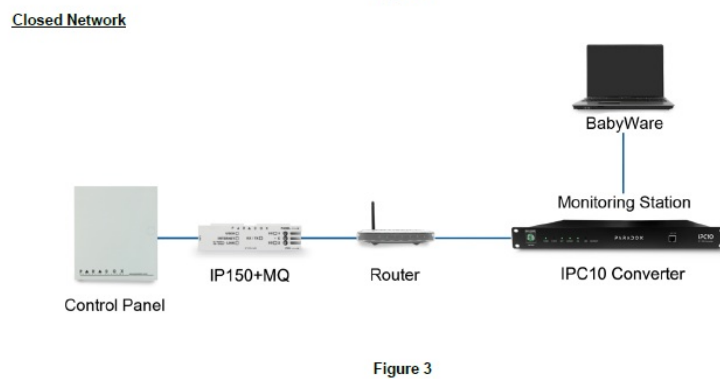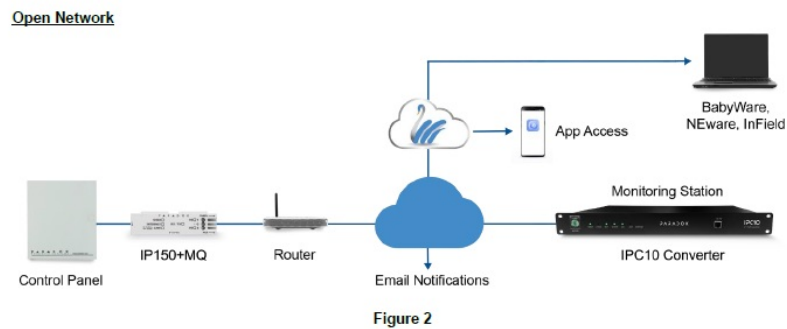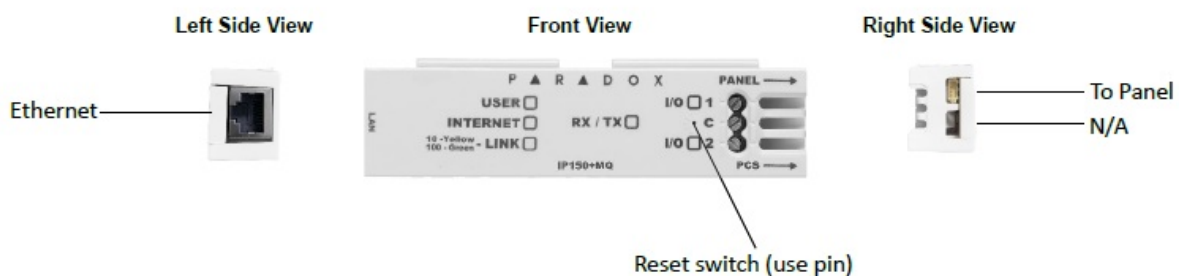

Figure 2

Figure 3

IP150+MQ Overview

Figure 4

LED Indicators

LED	Description
User	Green – On when a user is connected via BlueEye/BabyWare/InField/ NEware.
Internet	ON – Connected to Internet and connected to Swan-Q. Flashing every 1 second – connected to Internet, not connected to Swan-Q (no site token). OFF – no internet
Link	ON – Connected to Ethernet (GREEN 100 Mbps, Orange 10 Mbps)
RX/TX	ON – when connected to the panel Flashes when data is transmitted or received through/from 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 IP150+MQ 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 an email server, it may differ depending on the email server used.

Creating a Site

1. Open the BlueEye app.
2. Select the 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 IP150+MQ Using BlueEye

Configuring IP150+MQ in a Connected Site

1. Open the BlueEye app.
2. Select the 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 IP150+MQ.
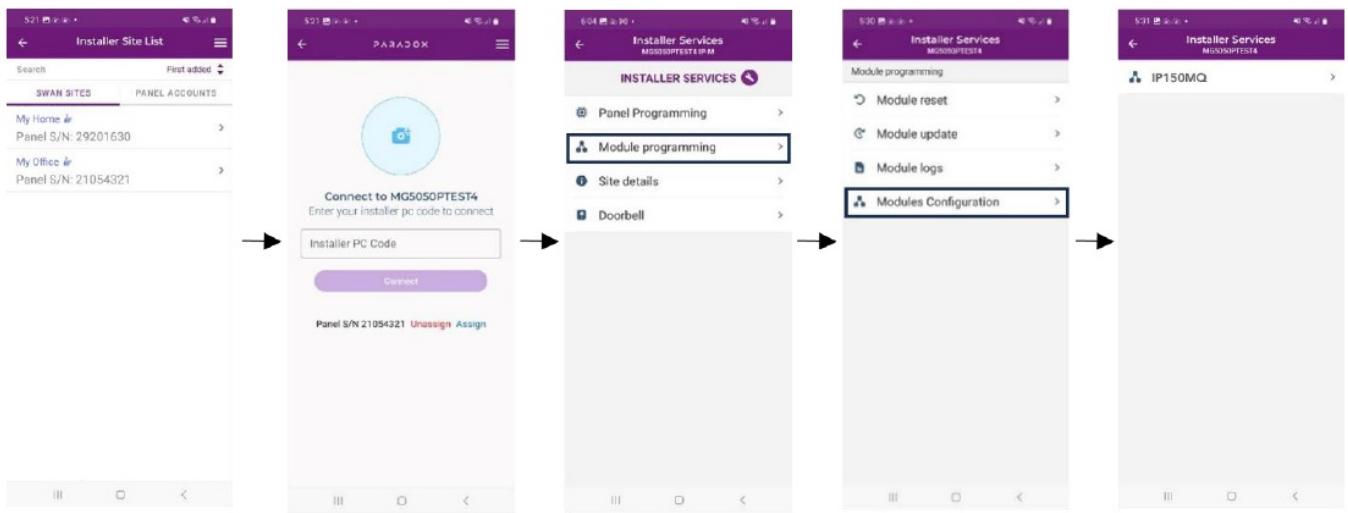
Configuration:

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), which indicates the supervision time.

Up to two receivers can be used to report with the IP150+MQ. If you are currently reporting to four receivers, once you upgrade to an IP150+MQ, 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 IP150+MQ can only report 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 IP150+MQ can report only to two receivers.

MG/SP Sending IP Credentials to Receiver					EVO/EVOHD+ Sending IP Credentials to Receiver			
IP Receiver	#1	#2	#3		IP Receiver	Main	Parallel	Backup
Save and Send/Status	[935]	[942]	[949]		Save and Send/Status	[2985]	[2987]	[2989]

Email Configuration (only with open networks)

Configure the IP150+MQ's email server settings. Please note that emails are not

supported in a closed network configuration.

Email Addresses

MG/SP Sections				EVOHD+			
IP Receiver	#1	#2	#3	IP Receiver	Main #1	Backup #2	Parallel # 3
IP Address 1	[929]	[936]	[943]	IP Address 1		[2986]	[2988]

IP Port 1	[930]	[937]	[944]	IP Port 1		
IP Profile	[934]	[941]	[948]	IP Profile	[2984]	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			

You can configure your IP150+MQ 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.

NOTES:

4. Enter the username without the @domain.
5. Sending emails is not supported in closed networks (custom SMTP is 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 V5.6.40 (and up) for connection/configuration. The below will be valid only if the Internet is not available on the connected network.

When IP150+MQ 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 IP150+MQ modules. A list of Paradox IP devices will appear (IP150+, IP150, and IP180 with supported versions) with their IP addresses and their serial numbers. Added the two pictures below.
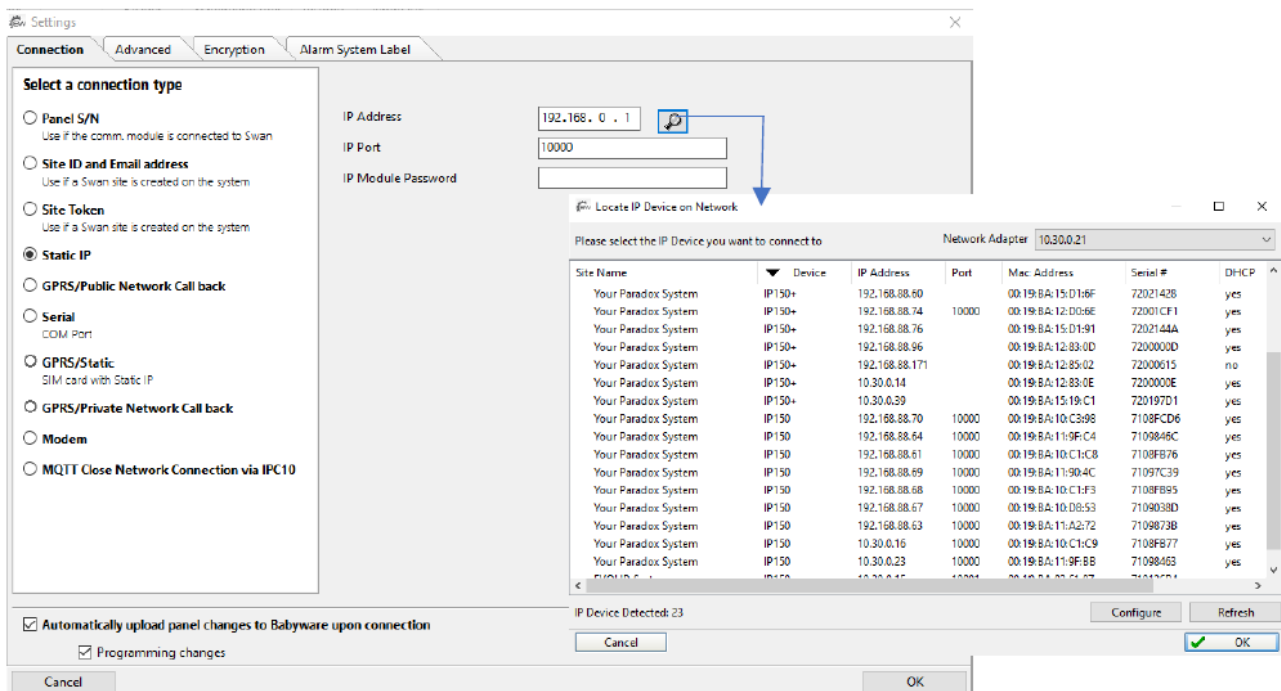
Enter the IP address of the device you wish to configure in a web browser. Enter the Installer PC Code of the panel (same as the PC Password in BabyWare, default 0000). From the web interface, once connected to the web page, disable Swan connection as shown below, and disable DHCP if needed. If DHCP 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), which indicates the supervision time. Up to two receivers can be used to report with the IP150+MQ. If you are currently reporting to four receivers, once you upgrade to an IP150+MQ, 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 steps below:

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 by 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 option.
3. Select the option MQTT Close Network Connection via IPC10.
4. Enter the IPC10 IP address, port, and panel serial number.
5. Select OK and add the panel ID, PC password, and connect to the panel.

NOTE: Configuring the 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 IP150+MQ.
7. The list of firmware available will appear; select the firmware to use.

Reset IP150+MQ to Default Settings

To reset the IP150+MQ 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.

Firmware Version Fallback

To revert the IP150+MQ module to its previously installed firmware version, unplug the power cable from the

panel and insert a pin/straightened paper clip (or similar object) into the pinhole located between the two I/O LEDs. Press down gently until you feel some resistance; plug in the power cable while holding the pin down for approximately five seconds and release it when the I/O 2 LED starts flashing (Figure 4). The I/O LED will turn solid and start blinking (resetting to the backup version). Once complete, the IP150+MQ will reboot automatically to the previously installed firmware version.

Technical Specifications

The following table provides the technical specifications for the IP150+MQ 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
Input Voltage	10V to 16.5Vdc, 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 SP5, EN 50131-10 Grade 3 , Class II

Warranty

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

Patents

US, Canadian, and international patents may apply. Paradox is a trademark or registered trademarks of Paradox Security Systems (Bahamas) Ltd.

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FAQs

Q: What should I do if I encounter issues connecting to the IP150+MQ?

A: Ensure that the ISP, router/firewall is not blocking the required ports (UDP 53, UDP 123, UDP 5683, TCP 8883, TCP 443, TCP Port 465, 587) for smooth connectivity.

Q: How can I confirm successful communication with the panel using IP150+MQ?

A: Check for the RX/TX LED flashing after connecting the Serial cable; a flashing LED indicates successful power and communication establishment.

Documents / Resources

IP150+MQ	PARADOX IP150plus MQ Internet Module [pdf] Installation Guide PRX-IP150 MQ, IP150plus MQ Internet Module, IP150plus MQ, Internet Module, Module

References

- User Manual

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