MWA500

Wi-Fi & Ethernet Communication Module for the Hunter-Pro Series and Captain 8

Installation Guide

PIMA

FOR BETTER PROTECTION

PIMA Electronic Systems Ltd.

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Introduction

This guide will help you through the installation and configuration of the Hi-Link (www.hlktech.net) MWA500 Wi-Fi & Ethernet communication module. The module lets users of the Hunter-Pro Series and Captain 8 alarm systems, to use the iPima app.

The module is mounted inside the enclosure of the control panel and is configured using any standard web browser.

Features

- Wi-Fi connection in several standards
- Ethernet connection to local (LAN) network
- Mounted in the enclosure of the control panel
- Easy browser configuration interface

Package contents of the product

- MWA500 module, mounted on a bracket that fits to the enclosure of the control panel.
- Antenna
- 2 screws
- This guide

Technical specifications

Network Standard	• Wireless: IEEE 802.11n, IEEE 802.11g, IEEE 802.11b
	• Ethernet: IEEE 802.3, IEEE 802.3u
Transmission Rate	• 11n: maximum up to 150Mbps
	• 11g: maximum up to 54Mbps
	• 11b: maximum up to 11Mbps
Frequency Range	2.4 - 2.4835GH
Interface	10/100Mbps, LAN/WAN, Multiplex
Antenna	External
Temperature	-10 to +50 $^{\circ}$C
Humidity	90%, non-condensed

Quick Reference Guide
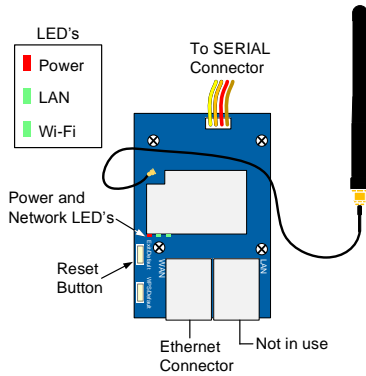
Figure 1.   The MWA500

Installation

⚠️
- ***Disconnect the control panel from AC and battery power prior to installation.***
- ***Avoid touching the antenna's wire connection.***

1. Carefully pass the antenna through the hole in the top of the control panel's enclosure, from inside out.

📝 **Note**   *If radio transmitter of GSM communicator are mounted before, break the right or left knockouts and use them for the module.*

2. Mount the module by fastening its bracket to the enclosure, using the supplied screws.
3. Connect the wire braid between the module and the SERIAL (J4) connector in the control panel.
4. Connect the control panel to power. The LEDs on the Wi-Fi module should lit.

Figure 2.   Connection diagram

Configuration

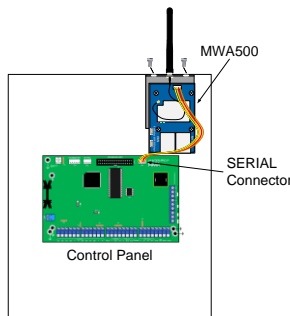## How to connect to the MWA500

First, you need to join the module to the local network (LAN). To do that, do the steps that follow:

1. Click the network connection icon on the desktop of the laptop.
2. In the network connection window, select *HI-LINK* and click *Connect*. If *HI-LINK* is not on the connections list, make sure the module is up and running.
3. Enter 12345678 in the password window to join the network.
4. Open a web browser, type the IP address of 192.168.16.254 and press *Enter*.
5. In the login window that opens up, enter *admin* as user name and as password, and click *Log in*. You must change these default definitions in the process of installation.

How to change the *Account* (username) and *Password*

The first time you login, you must change the default username and password of the module. To do that, do as follows:

1. Click *Administration/Management*.
2. Under *Administrator Settings*, set new *Account* (username) and *Password*. Make sure to write down the new definitions.
3. Click *Apply*.

How to configure the module

Serial2Net Settings

1. Click *Serial2Net Settings* on the left pane.
2. Use the next table to set the module's parameters. When you are done, press *Apply* to save and restart the module:
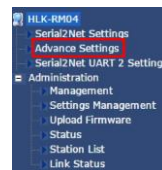
No.	Parameter	Select/Type
1.	NetMode	• *WIFI(CLIENT)-SERIAL* for Wi-Fi mode • *ETH-SERIAL* for Ethernet mode
2.	SSID (Wi-Fi mode only)	Press *Scan* and wait for the module to detect Wi-Fi networks. When the list appears, select the desired one and click *Apply*.
3.	Encrypt Type (Wi-Fi mode only)	See the network settings.
4.	Password	The password of the router
5.	IP Type	Select *STATIC*
6.	IP Address	The LAN address of the module. Use this address for port forwarding[1]. Make sure to write down the address, or you will have to reset the module to login.
7.	Subnet Mask	See the network settings.
8.	Default Gateway	See the network settings.
9.	Primary DNS Server	See the network settings.
10.	Secondary DNS Server	Do not change.
11.	Serial Configure	*2400,8,n,1*
12.	Serial Framing Length	*256*
13.	Serial Framing Timeout	*2000*
14.	Network Mode	Select *Server*.
15.	Remote Server Domain/IP	The IP address of the router
16.	Locale/Remote Port Number	Set between 10150 and 10160.
17.	Network Protocol	Select *TCP*.
18.	Network Timeout	Do not change.

Advance Settings

Use the next table to set the module's special settings. When you complete, press *Apply* to save and restart the module:

No.	Parameter	Select/Type
1	TCP AUTO CONNECT	*Enable*
2	SERIAL ESCAPE	*Disable*
	SERIAL ESCAPE2	
	SERIAL ESCAPE2 TIME	
3	SERIAL ESCAPE2 TIME	*2000*

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[1] See limitation note at the last page.

No.	Parameter	Select/Type
4	SERIAL FRAME INTERVAL TIMEOUT	*1500*
5	Client Locale Port	Set the same as in *Locale/ Remote Port Number* above.
6	WIFI Channel	Select '1'
7	SERIAL RTS(GPIO_1) SERIAL XON/XOFF	*Disable*

How to Reset the MWA500

To reset the module to its factory default settings, follow the next steps:

1. While the module is connected to power, press and hold the *Exit/Default* button for 10 seconds.
2. Wait 2 seconds.
3. Press again the *Exit/Default* and wait for the two green LEDs to extinguish. The module will now reset itself.

<u>Limited support notice</u>:

Due to the diverse mix of networks, we are not able to offer support on routers, modems, switches or any other network/internet related devices or services.

Our support for internet or network related features, that are not directly related to the product are limited.

The following must be completed before calling our support team with network/internet related features:

1. Your network/internet must be configured and working
2. IP address and port number for the product must be pre- configured on the network
3. Also, have the following information available: default Gateway, Subnet mask, port numbers and all other network information