

GWU-HS7600 Gateway Connect

INSTRUCTION MANUAL



Connectivity Device

 **DATALOGIC**

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(EULA) FOR GATEWAY CONNECT GWU-HS7600

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To arrange for a Software Maintenance and Support Agreement please contact your Datalogic sales person.

NOTES

GWU-HS7600 GATEWAY CONNECT

USING THE GWU-HS7600 GATEWAY

The Gateway Connect is an accessory that communicates with the CODiScan™ via Bluetooth.

Customers can manage up to 7 devices with one gateway.

Gateway Connect communicates in a secure way to pair and configure the device and let it communicate with a host:

- via USB to a fixed or vehicle-mounted computer
- via Wi-Fi to send data to a cloud.

The Wi-Fi capabilities of the gateway can be also exploited by Powerscan PBT9600.

The label on the gateway has LED indicators that signal the GWU-HS7600 status, as explained in the table below:

Table 1. LED indicators

STATUS	LED1 (USB)	LED2 (SCANNER)	LED3 (CLOUD)
Powered	Solid YELLOW		
Powered and cable interface enumerated	Solid GREEN		
Send data to host ^a	GREEN flash		
At least 1 scanner linked		Solid GREEN	
Max nr of linked scanner reached		4x Blinking RED (250ms ON - 250ms OFF) After that, Solid GREEN	
Receiving data from scanners		GREEN flash	
Config alignment		Blinking GREEN (250ms ON - 250ms OFF)	

STATUS	LED1 (USB)	LED2 (SCANNER)	LED3 (CLOUD)
Reader disabled by host		Blinking GREEN (100ms ON - 900ms OFF)	
Host download/ Firmware upgrade (upload and store)	Blinking GREEN (250ms ON - 250ms OFF)	Blinking GREEN (250ms ON - 250ms OFF)	
Wi-Fi module fw upgrade			Blinking YELLOW (100ms ON - 100ms OFF)
Transmission Error to Host/USB Suspend	No effect	No effect	No effect
Gateway connecting to Wi-Fi ^b			Blinking YELLOW (250ms ON - 250ms OFF)
Gateway connected to an AP			Solid YELLOW
Gateway connecting to cloud ^c			Blinking GREEN (250ms ON - 250ms OFF)
Gateway connected to cloud ^d			Solid BLUE
Gateway sending or receiving data over cloud			BLUE flash

- Only for USB cable transmission
- When Wi-Fi is enabled, the continuous yellow flash on LED3 indicates the gateway is about to connect to an AP or an unreachable AP (AP powered down, out of range or badly configured). A gateway properly configured should continuously attempt to establish the AP connection until it the configured AP becomes available again.
- The gateway is attempting to establish a connection to a configured MQTT broker or a WebSocket server.
- Connection to the MQTT broker or the WebSocket server (whatever is configured) has been correctly established.

INSTALLATION

To set up your GWU-HS700 Gateway you must:

1. Physically install it.
2. Make all system connections.
3. Configure it.

PACKAGE CONTENTS

The Gateway package contains the following items:

- GWU-HS7600 Gateway Connect
- Wall/desk mounting kit including screws and hook and loop tape

MOUNTING INSTRUCTIONS

The gateway can be either set on or mounted to a flat surface for desktop usage, or affixed vertically to a wall.

PERMANENT MOUNTING

For either desktop or wall mounting, the gateway can be fastened directly to a flat surface using screws or fixing the hook and loop tape included with the product.



NOTE: For vertical installation, do not exceed two meters in height.

Figure 1 - Screw position

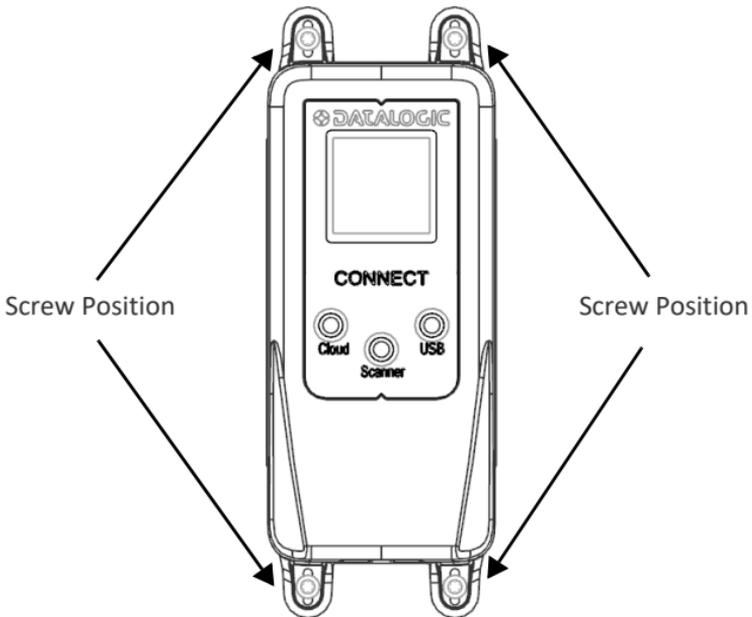
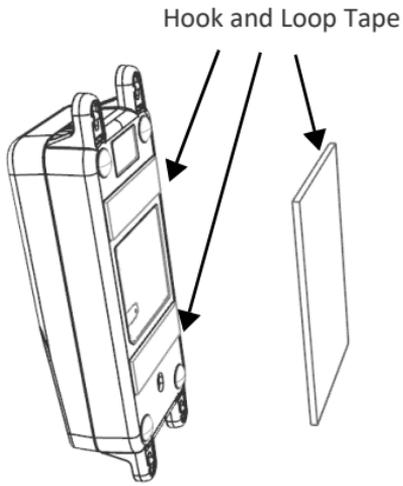


Figure 2 - Hook and Loop Tape

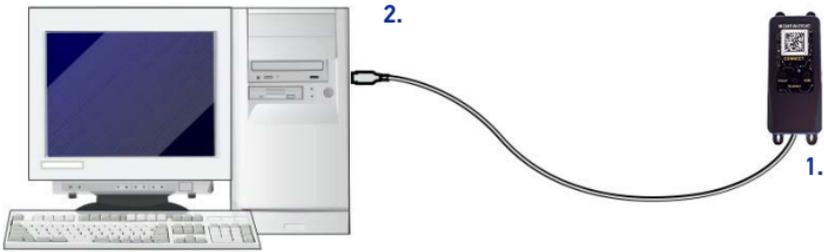
SYSTEM CONNECTIONS

The connection of the GWU-HS7600 Gateway can be done either via USB or Wi-Fi interface.

USB

When using a USB connection, a USB host is needed to power and communicate with the Gateway.

Figure 3. Connection via USB



Wi-Fi

When connecting via Wi-Fi, the Gateway can be powered either via a USB host or an external power supply (5V).

Figure 4. Wi-Fi - Host supply

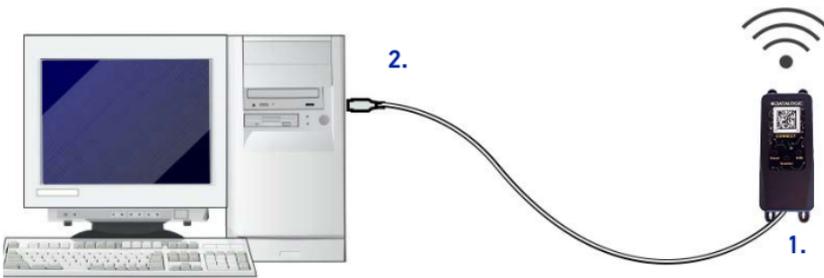


Figure 5. Wi-Fi - External power supply



Recommended Cables

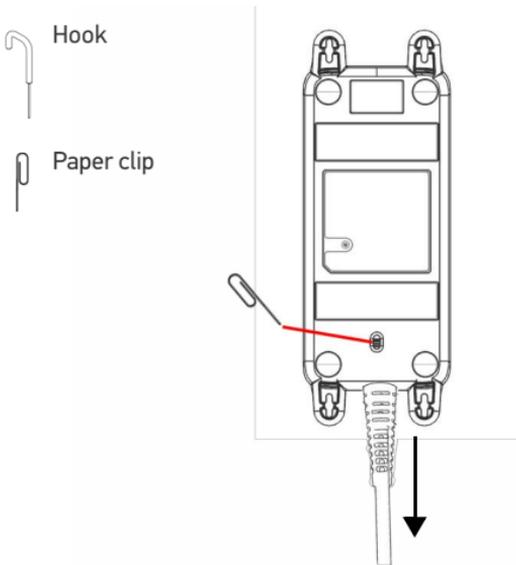
CABLE	PART NUMBER
USB Cable	90A052258
External power supply	94ACC0196 + 90A052258

Disconnecting the USB Cable and Resetting the Gateway

To remove the USB cable, first locate the hole on the back of the gateway. Next, either use the hook provided in the mounting kit or take a paper clip and modify it as shown in the figure below. Insert the end of the hook/paper clip into the hole and press it to push on the clip that holds the connector. As you apply pressure, pull out the cable.



NOTE: Disconnecting and reconnecting the USB cable will automatically reset the Gateway.



Find-me and Firmware Updates

To activate the “Find-me” feature, which makes the connected devices beep, first locate the correct hole on the back of the gateway. Next, use the hook provided in the mounting kit or take a paper clip and modify it as shown in the figure below. Insert the end of the hook/paper clip into the hole and push the button.

Figure 6. Find-me



To finalize the firmware update following the Aladdin procedure, use a device linked to the gateway to read the label shown on Aladdin, or follow these steps when the message below is shown on Aladdin:



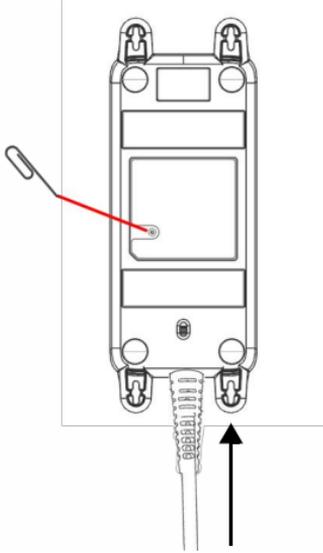
1. Disconnect the USB cable to reset the gateway
2. Use a modified clip to press the button shown in the picture while re-connecting the USB cable (as shown in [Figure 7](#)).

It is also possible to update the devices connected to the Gateway by choosing the specific firmware.



NOTE: Don't link new devices and don't unlink the connected devices during the update.

Figure 7. Firmware Update



CONFIGURATION

GWU-HS7600

GWU-HS7600 configuration can be performed using the Datalogic Aladdin software configuration program or by reading configuration bar codes with the reader.

Datalogic Aladdin™

Datalogic Aladdin™ (available for free download from the Datalogic website) is a multi-platform utility program that provides a quick and user-friendly configuration method via the RS232/USB-COM or Ethernet interface. It also allows upgrading the software of the connected device (see the Datalogic Aladdin™ Help On-Line for more details).

Configuration Bar Codes

Link the gateway and the reader by simply reading the barcode printed on top of the gateway (connection label). Once the pairing is complete, you can configure the gateway by reading the configuration bar codes, with a CODiScan HS7600 only, on Aladdin™ or in the device manual.

GWU-HS7600 CLOUD SETUP

Access Point Configuration

The GWU-HS7600 operates as Wi-Fi station IEEE 802.11b/g/n 2.4 GHz and supports the following secure connections:

- WPA2/WPA3 Personal
- WPA2 Enterprise PEAP, TLS and TTLS

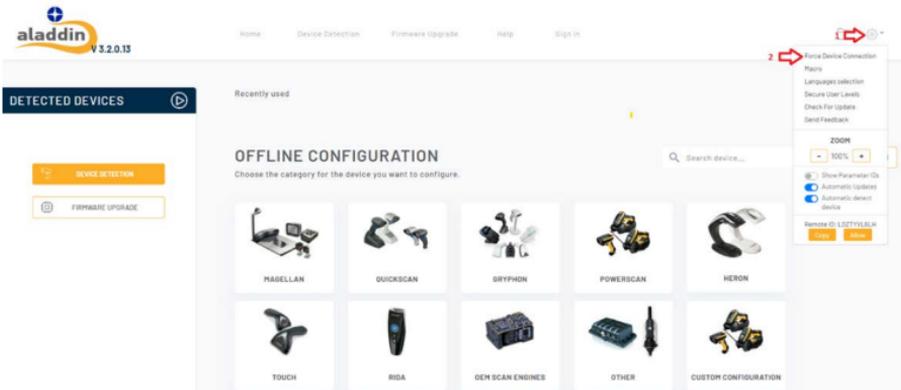
The following sections describe how to set up a Wi-Fi connection using the Datalogic Aladdin software configurator. Please use the latest version of Aladdin available for download from https://www.datalogic.com/page/search?search_txt=aladdin.

Take care to install also the USB_COM driver provided with the Aladdin setup. For clarity the device is assumed in its default configuration and connected to a free USB port, with a linked scanner (see related section). If the linked scanner is a PBT9600 follow section "[Aladdin Force Connection - Wi-Fi Enable](#)" on [page 11](#); if the linked scanner is a CODiScan, jump to section "[Wi-Fi Interface Enable with a CODiScan](#)" on [page 13](#).

Aladdin Force Connection - Wi-Fi Enable

Click on Tools/Settings drop-down menu and select Force Device Connection ([Figure 8](#))

Figure 8. Aladdin Force Connection



A window with a barcode appears ([Figure 9](#)). Scan the barcode with the linked scanner and wait for the USB-HID port connection to appear, then click to Connect Device to enable the configuration menu of the GWU-HS7600 ([Figure 10](#)).

Now the Wi-Fi interface can be enabled by choosing Interface Selection and set the communication interface as "WIFI STD" ([Figure 11](#)). Click yes in the confirmation window asking to activate immediately the interface change.

Figure 9. Aladdin Force Connection

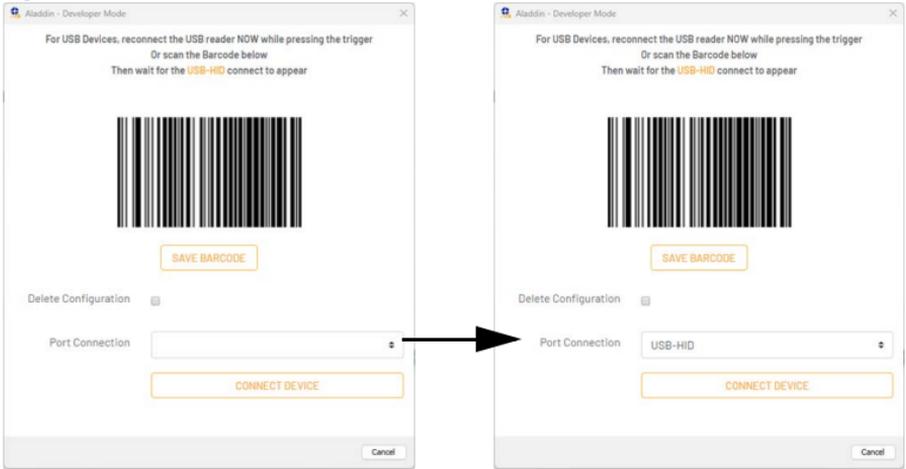


Figure 10. Aladdin Force Connection

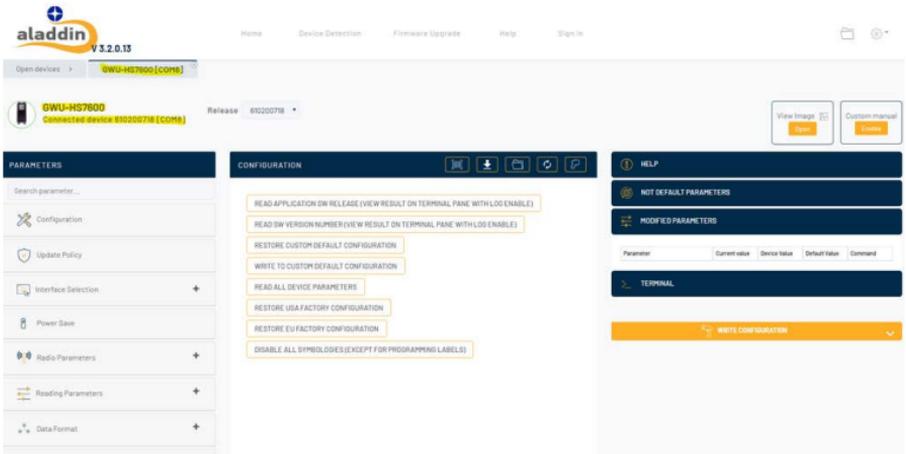
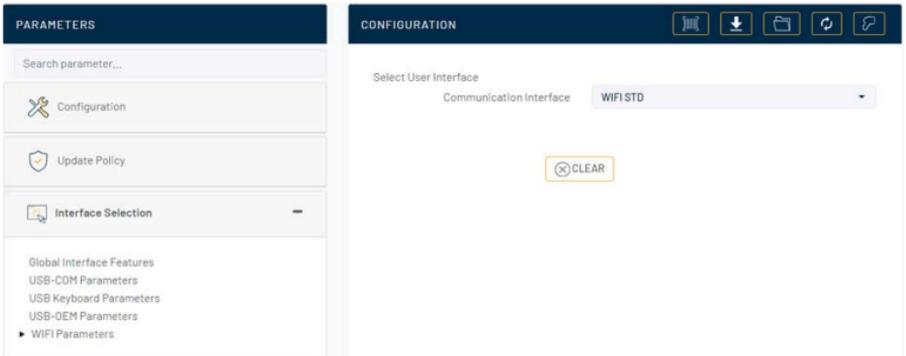


Figure 11. Aladdin Force Connection



Wi-Fi Interface Enable with a CODiScan

If a CODiScan scanner is linked to the GWU-HS7600, to enable the Wi-Fi interface scan the barcode below.



Wi-Fi Interface Enable

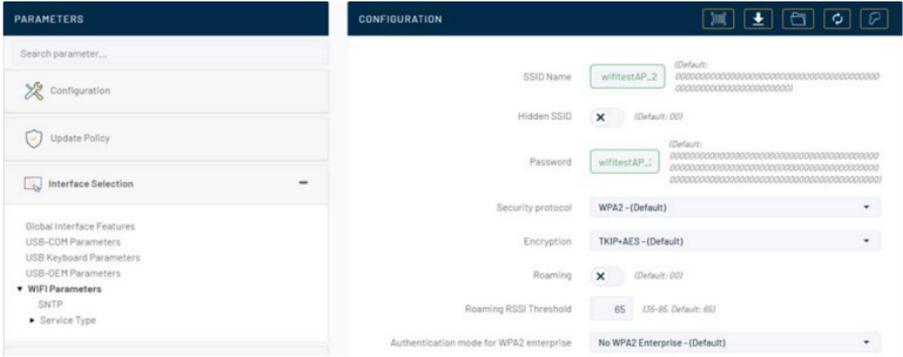
Access Point Configuration

Assuming the GWU-HS7600 has the Wi-Fi interface already enabled and connected to a free USB port, open Aladdin and verify the device is properly recognized (Figure 12). Click on the device to open the configuration, expand the Interface Selection sub-menu on the left and select Wi-Fi parameters (Figure 13). In this section it is possible to enter the credentials of the access point.

Figure 12. Access Point Configuration



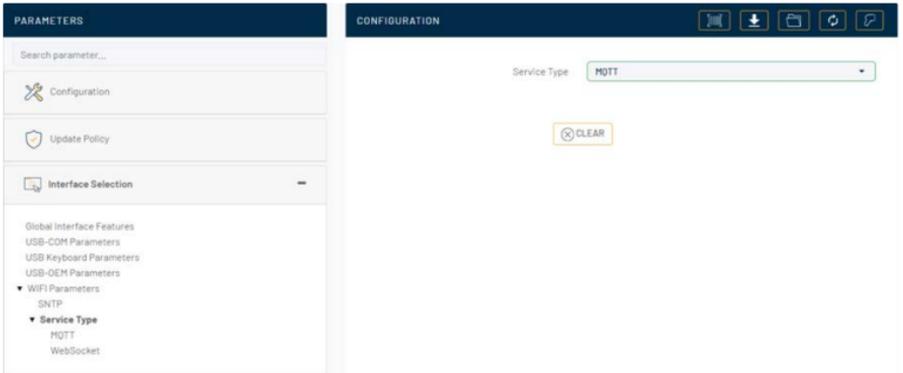
Figure 13. Access Point Configuration



Service Configuration

The GWU-HS7600 can be configured as a WebSocket client or a MQTT client. To configure the proper service, configure the Service Type then open the related sub-menu to enter the proper service configuration (). It is also possible to configure up to 3 NTP servers in section SNTP.

Figure 14. Service Configuration



Certificates

At the bottom of the configuration menu on the left, there's a section dedicated to the certificate configuration for MQTT, HTTPS and WPA2 Enterprise.

TECHNICAL SPECIFICATIONS

The following table contains Physical and Performance Characteristics, User Environment and Regulatory information.

PHYSICAL CHARACTERISTICS	
Color	Black
Dimensions	Height: 3 cm (1.18") Length: 13.5 cm (5.31") Width: 5 cm (1.96") Weight: 80g (2.82 oz)
ELECTRICAL CHARACTERISTICS	
Supply Voltage	5VDC +/-5%
Power Consumption	max. 300 mA
Indicators	See Table 1 on page 1
ENVIRONMENTAL CHARACTERISTICS	
Working Temperature	-20° to +50 °C / -4 to +122 °F
Storage Temperature	-40° to +60 °C / -40 to +140 °F
Humidity	90% non condensing
Protection Class	IP40
Regulatory	See Regulatory Addendum

BT CHARACTERISTICS	
Frequency working center	2400 to 2483.5 MHz
Typical Range (in open air)	100 m
Max number of devices per base station	7
CLOUD PARAMETERS	
MQTT Length	Max Scancode Length 1450
Websocket Length	Max Scancode Length 2048
Scancode Dataformat	Base64

Available JSON tags	<p>api_version: <string></p> <p>client_serial: <string></p> <p>encoding: <string> (is the encoding of the scan_code content, fixed to base64 string)</p> <p>scan_code: <string></p>
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TECHNICAL SUPPORT

Support Through the Website

Datalogic provides several services as well as technical support through its website. Log on to (www.datalogic.com).

For quick access, from the home page click on the search icon , and type in the name of the product you're looking for. This allows you access to download Data Sheets, Manuals, Software & Utilities, and Drawings.

Hover over the Support & Service menu for access to Services and Technical Support.

Reseller Technical Support

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