



DIN-GWDL and DIN-GWDL-SPLTR

Digital Lighting Gateway, DIN Rail Mount

Product Manual
Crestron Electronics, Inc.

Original Instructions

The U.S. English version of this document is the original instructions.
All other languages are a translation of the original instructions.

Regulatory Model: DIN-GWDL

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Overview

The [DIN-GWDL](#) is a gateway for Crestron light fixtures and Crestron compatible third-party light fixtures. It provides full control of all connected lighting loads. The DIN-GWDL is configured using the Crestron Home® Setup application and controlled using a Crestron Home system.

The [DIN-GWDL-SPLTR](#) expands the capability and flexibility of the [DIN-GWDL](#) by providing four additional outputs for Crestron light fixtures and Crestron compatible third-party light fixtures.

Use the [Crestron Light Fixture Configuration Tool](#) to order.

This section provides the following information:

- [Features](#)

Features

Key features include:

- Designed exclusively for Crestron Home® OS
- Supports up to 64 directly connected Crestron light fixtures and Crestron compatible third-party light fixtures
- Support expanded up to 85 Crestron light fixtures and Crestron compatible third-party light fixtures with the use of a [DIN-GWDL-SPLTR](#) (sold separately)
- Provides 4 outputs, each supporting up to 32 directly connected Crestron light fixtures and Crestron compatible third-party light fixtures
- Expands the capability of the DIN-GWDL to support up to 85 Crestron light fixtures and Crestron compatible third-party light fixtures
- Expands wire run maximum 1000 ft (305 m) beyond the DIN-GWDL
- RJ-45 adapters included for quick wiring using shielded CAT5 cable
- Ability to turn all lights on and off without a control system via local control
- Auto-addressing and quick commissioning through the Crestron Home Setup Application
- Compatible with Crestron SolarSync® sensors
- Order using the [Crestron Light Fixture Configuration Tool](#)
- 6U 35 mm DIN rail mountable

Crestron Home Color UI

Use the Crestron Home Color UI to easily control the tunable white and full color lighting loads. Adjust hue, saturation, intensity and color temperature. Create scenes to set the mood for entertaining or ensure the optimal setting for a professional conference call. Set lighting schedules or implement Circadian lighting rhythms.

Circadian Rhythm Lighting Control

Sunlight has a predictable rhythm of color temperature and intensity. Connected light fixtures can be synchronized with this natural rhythm.

SolarSync® Sensor

Match outside light using an outdoor SolarSync® Sensor ([GLS-LCCT](#), sold separately). SolarSync communicates the outside color temperature to Crestron Home® in real-time and tunes your indoor lighting accordingly.

Supports up to 85 Crestron Light Fixtures and Crestron Third-Party Fixtures

The DIN-GWDL has two DMX-C outputs, each of which supports up to 32 directly connected Crestron light fixtures and Crestron compatible third-party light fixtures, for a total of 64 directly connected fixtures. Each added DIN-GWDL-SPLTR adds four additional DMX-C outputs, each of which supports up to 32 directly connected Crestron light fixtures and Crestron compatible third-party light fixtures. The DIN-GWDL with a DIN-GWDL-SPLTR can support a total of 85 Crestron light fixtures and Crestron compatible third-party light fixtures.

Fast Commissioning

Connect Crestron light fixtures and Crestron compatible third-party light fixtures quickly with the RJ-45 adapters. Verify the system immediately by testing lighting loads with local controls. Once connected to a Crestron Home processor through a DIN-GWDL, DMX-C allows for lighting loads to be automatically addressed and discovered using the fixture identify tool.

Product Specifications

Product specifications for the DIN-GWDL and DIN-GWDL-SPLTR.

WARNING: This product can expose you to chemicals including Nickel (Metallic), which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.

This section provides the following information:

- [DIN-GWDL Specifications](#)
- [DIN-GWDL-SPLTR Specifications](#)

DIN-GWDL Specifications

Product specifications for the DIN-GWDL.

Product Specifications

Supported Fixtures

Crestron light fixtures

Crestron compatible third-party light fixtures

Data Storage

Removable MicroSD Card (supplied)

Communications

DMX-C	Supports discovery, auto-addressing and fixture data; DMX-C communications with Crestron light fixtures and Crestron compatible third-party light fixtures
Ethernet	100BASE-TX Ethernet; Static IP or DHCP

Connections

LAN PoE Class 2	(1) 8-pin RJ-45 connector, female; 100BASE-TX Ethernet port; PoE (Power over Ethernet) PD (Powered Device)
9-48VDC	(1) 3-pin 5.18 mm terminal block; 9 - 48VDC, 5 W max; Use only when not powering the device using PoE
DMX 1-2	(2) 3-pin 5.18 mm terminal blocks; Isolated DMX-C outputs; One universe split between two ports; Each output supports up to 32 directly connected devices Wiring: Use shielded CAT5 wire or better with a shielded connector, do not connect drain to ground; 24 AWG minimum; RJ-45 to 3-pin adapters included to make CAT5 STP connections; Daisy chain all fixtures, do not create loops; 1,000 ft (305 m) maximum per output Termination: Terminate all daisy chain runs with the termination resistor included with the fixtures; Terminate the connection to a DIN-GWDL-SPLTR with the 120 Ω termination resistor included with the DIN-GWDL-SPLTR between the + and - pins on the terminal block that connects to DMX IN
INPUTS and OUTPUTS	(1) 8-pin 5.18 mm terminal block, shared between INPUTS and OUTPUTS INPUTS 1-2: (2) inputs for contact closure, INPUT 1 contact controls Override mode and INPUT 2 contact controls the lights when Override mode is on; INPUT 1: When the contact is closed, Override mode is turned on. When the contact is open, Override mode is turned off and the lights operate normally; INPUT 2: When the contact is closed, the lights turn off. When the contact is open, the lights turn on OUTPUTS 1-2: (2) individually isolated (1KV) relay outputs (48V 250mA); Repeats signal from corresponding INPUT 1 or 2; Connect to additional DIN-GWDL INPUTS or other device override inputs
N/A	Not used

Controls and Indicators

MODE Rotary Dial	(1) Dial for selecting different test modes for DMX-C outputs
SELECT Button	(1) Push button function varies based on test mode selected
RESET Button	(1) Recessed push button for software reset
PWR LED	(1) Red LED indicates operating power is supplied
ACTIVE LED	(1) Red LED indicates device is active
ETHERNET LED	(1) Red LED indicates ethernet activity
I/O LED	(1) Red LED flashes when a change occurs on the INPUT or OUTPUT terminals
N/A LED	Not used
DMX LED	(1) Red LED indicates DMX-C activity
OUTPUT LED	(1) Red LED indicates that the device is actively controlling the lights

Power

PoE	IEEE 802.3af Class 2 (6.49 W) compliant; Use CEN-SW-POE-5 or other IEEE 8.2.3af compliant PSE
Power Pack (Optional)	9-48VDC; Use Crestron power supplies PW-2407-RU , PW-2407WUL , DIN-PWS60 , DIN-PWS30-277 (all sold separately)
Power Consumption	5 W max

Environmental

Temperature	32° to 122°F (0° to 50°C)
Humidity	10% to 90% RH (noncondensing)

Construction

Mounting	6 unit wide DIN rail mounting enclosure (DIN43880 / EN60715 (35/7.5 rail))
Ingress Protection	IP40

Dimensions

Height	3.74 in. (95 mm); 4.96 in. (126 mm) with terminal blocks and RJ-45 adapters
Width	4.23 in. (108 mm)
Depth	1.73 in. (44 mm)

Weight

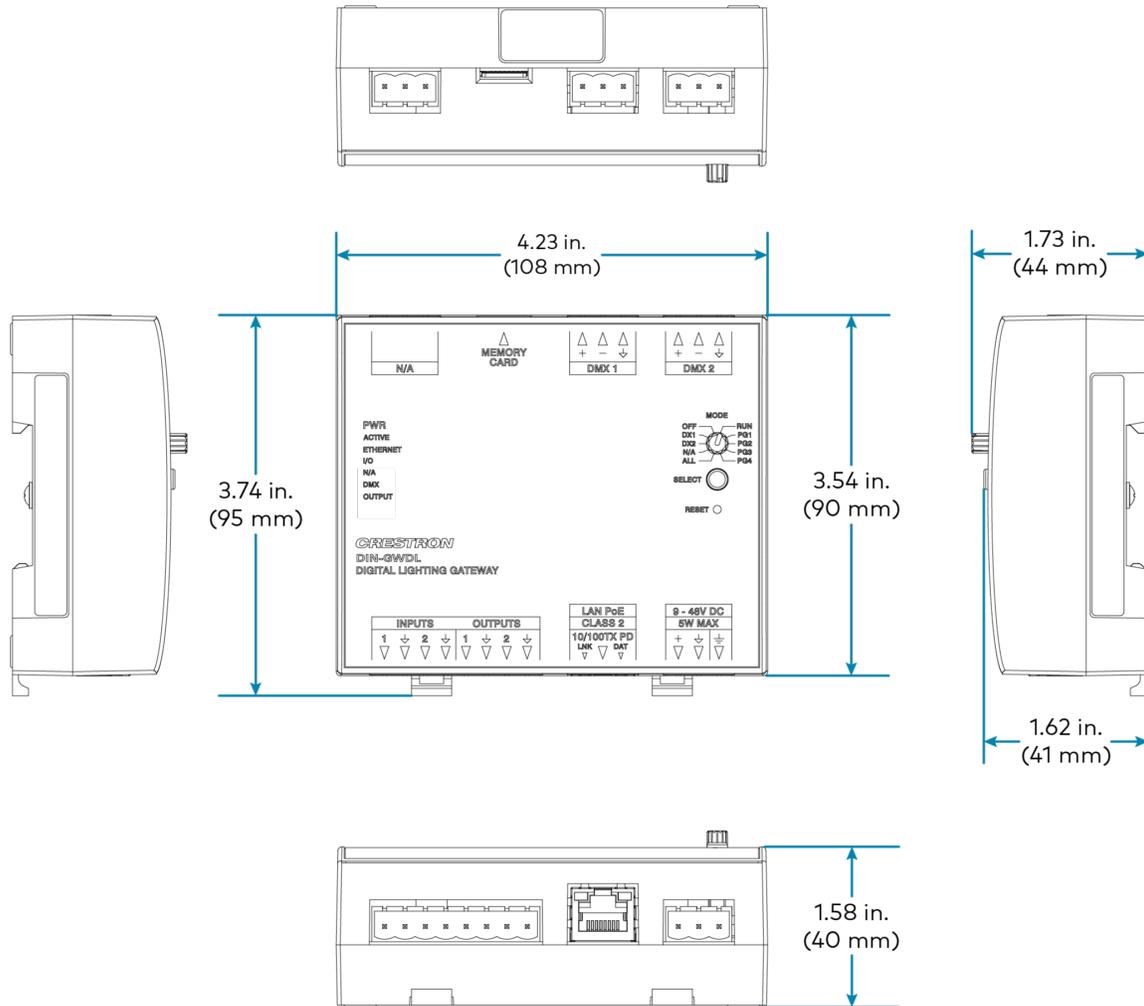
0.44 lb (0.2 kg)

Compliance

FCC, IC, CE, and UL® listed

To search for product certificates, refer to support.crestron.com/app/certificates.

Dimension Drawings



DIN-GWDL-SPLTR Specifications

Product specifications for the DIN-GWDL-SPLTR.

Product Specifications

Supported Fixtures

Crestron light fixtures

Crestron compatible third-party light fixtures

Communications

DMX-C Supports discovery, auto-addressing and fixture data;
DMX-C communications with Crestron light fixtures and Crestron compatible third-party light fixtures

Connections

9-48VDC (1) 3-pin 5.18 mm terminal block;
9 - 48VDC, 4 W Max;

DMX IN (1) 3-pin 5.18 mm terminal block;
Connect to DMX 1 or DMX 2 of DIN-GWDL

Termination:

Terminate the connection to a DIN-GWDL-SPLTR with the 120 Ω termination resistor included with the DIN-GWDL-SPLTR between the + and - pins on the terminal block that connects to DMX IN

OUT 1-4 (4) 3-pin 5.18 mm terminal blocks;
Isolated DMX-C outputs;
One universe split between four ports;
Each output supports up to 32 directly connected devices

Wiring:

Use shielded CAT5 wire or better with a shielded connector, do not connect drain to ground;

24 AWG minimum;

RJ-45 to 3-pin adapters included to make CAT5 STP connections;

Daisy chain all fixtures, do not create loops;

1,000 ft (305 m) maximum per output

Termination:

Terminate all daisy chain runs with the termination resistor included with the fixtures

Controls and Indicators

RESET button (1) Recessed push button for software reset

PWR LED (1) Red LED indicates operating power is supplied

ACTIVE LED	(1) Red LED indicates device is active
DMX LED	(1) Red LED indicates DMX-C activity
RDM LED	(1) Red LED indicates RDM activity
ERROR LED	(1) Red LED indicates an error

Power

Power Pack	9-48VDC; Use Crestron power supplies PW-2407-RU , PW-2407WUL , DIN-PWS60 , DIN-PWS30-277 (all sold separately)
Power Consumption	4 W max

Environmental

Temperature	32° to 122°F (0° to 50°C)
Humidity	10% to 90% RH (noncondensing)

Construction

Mounting	6 unit wide DIN rail mounting enclosure (DIN43880 / EN60715 (35/7.5 rail))
Ingress Protection	IP40

Dimensions

Height	3.74 in. (95 mm); 5.62 in. (143 mm) with terminal blocks and RJ-45 adapters
Width	4.23 in. (108 mm)
Depth	1.57 in. (40 mm)

Weight

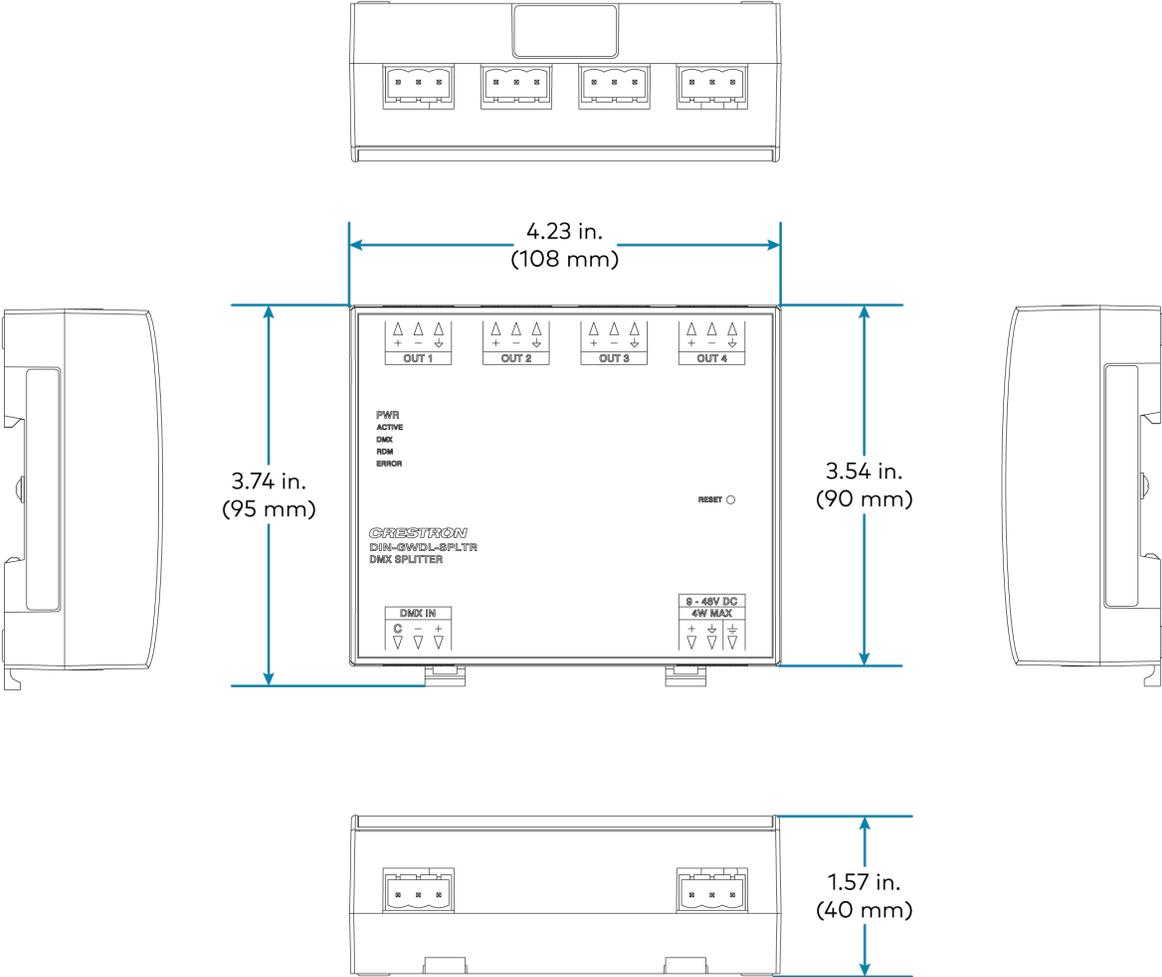
0.44 lb (0.2 kg)

Compliance

FCC, IC, CE, and UL® listed

To search for product certificates, refer to support.crestron.com/app/certificates.

Dimension Drawings



Installation

When installing the DIN-GWDL and DIN-GWDL-SPLTR, do not exceed the maximum fixture limits. Refer to [System Considerations and Fixture Limits on page 21](#) for more information. Mount the device and make all necessary connections. The **MODE** rotary dial and **SELECT** button can be used to test connected light fixtures without a control processor.

NOTE: This product must be installed and used in accordance with appropriate electrical codes and regulations. This product must be installed by a qualified electrician.

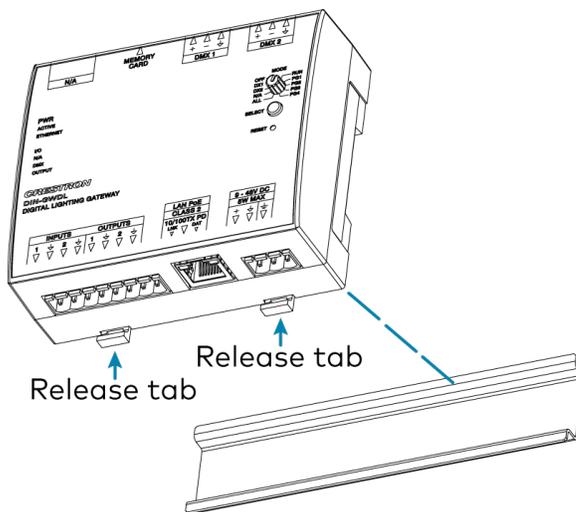
Mounting

Mount the DIN-GWDL and DIN-GWDL-SPLTR onto a standard DIN rail (not included).

NOTE: The RJ-45 adapters can cause interference with the enclosure or adjacent modules. When selecting mounting locations for the DIN-GWDL and DIN-GWDL-SPLTR, consider the extra space these adapters will require.

To mount the DIN-GWDL and DIN-GWDL-SPLTR:

1. Hang the device on the top of the DIN rail.
2. Align the bottom of the device with the DIN rail, then snap into place.



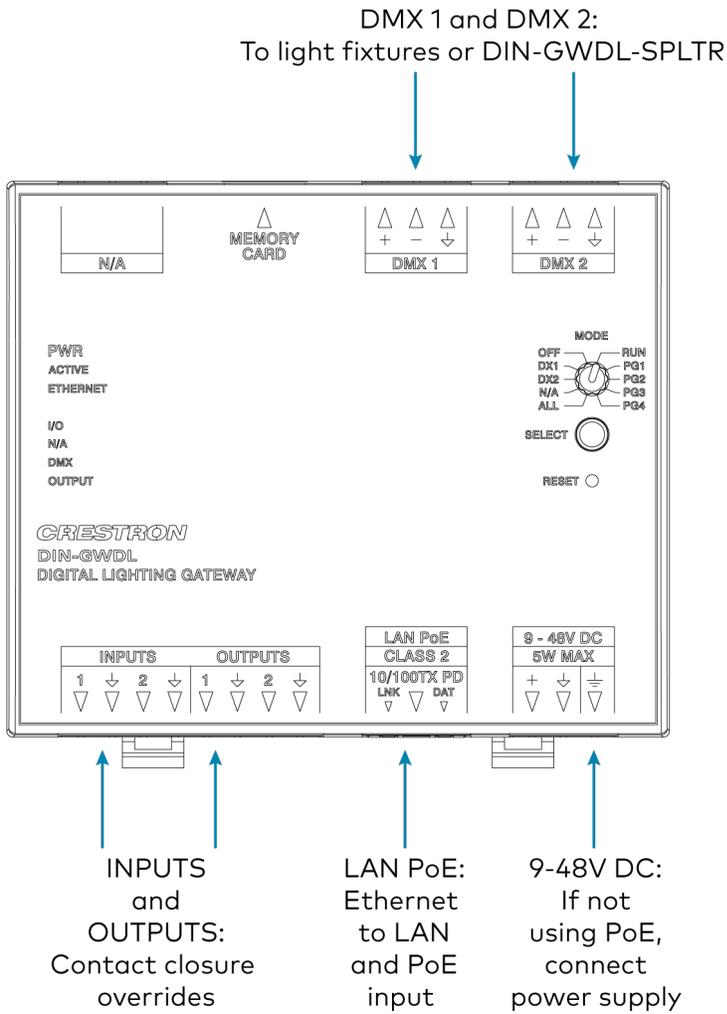
To remove the DIN-GWDL and DIN-GWDL-SPLTR from the DIN rail:

1. Remove all connections from the device.
2. Use a small, flat-head screwdriver to pull the DIN rail release tabs down.
3. Tilt the bottom of the device away from the bottom of the DIN rail, then remove the device.

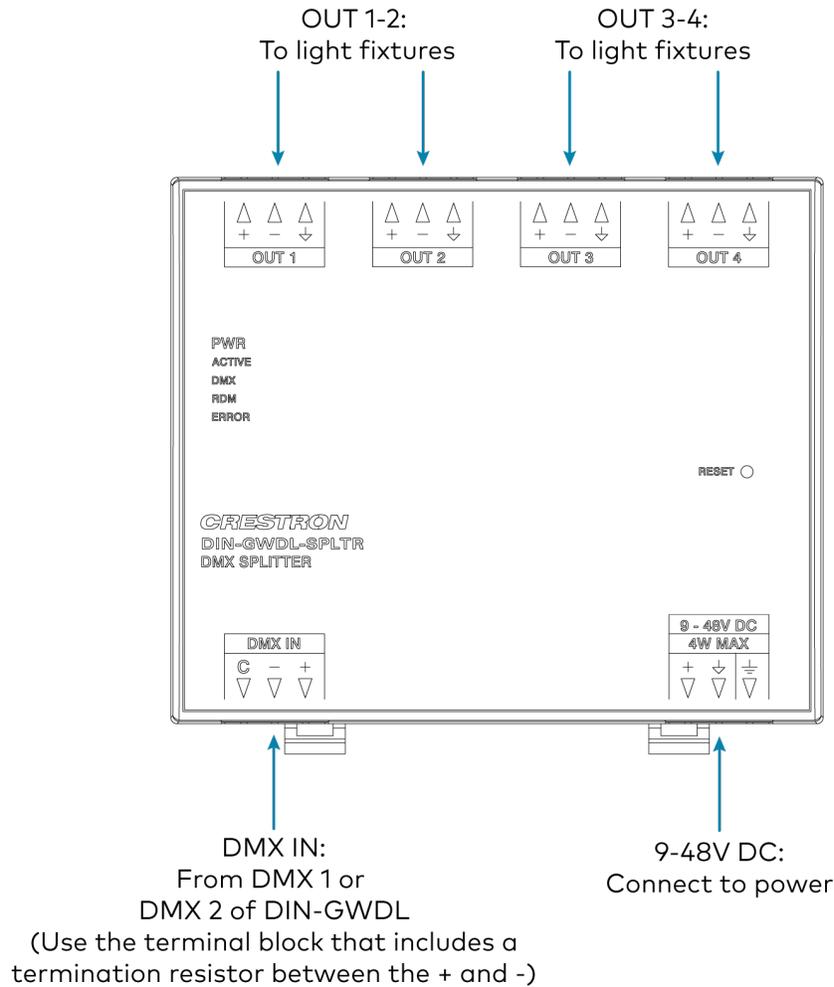
Make Connections

Make device connections as shown in the following illustrations.

DIN-GWDL Connections



DIN-GWDL-SPLTR Connections



System Considerations and Fixture Limits

Fixture Limits

Consider the following:

DIN-GWDL Maximum Light Fixtures: Up to 85

- The DIN-GWDL supports up to 64 directly connected fixtures. DMX 1-2 outputs each support up to 32 directly connected fixtures.
- The DIN-GWDL with DIN-GWDL-SPLTRs support up to 85 fixtures. OUT 1-4 outputs on the DIN-GWDL-SPLTR each support up to 32 directly connected fixtures.

Wiring

- Use shielded CAT5 wire or better with a shielded connector.
- DIN-GWDL connections:
 - Connect a light fixture daisy-chain or a DIN-GWDL-SPLTR to **DMX 1** or **DMX 2**.
 - When using a DIN-GWDL-SPLTR, connect the DIN-GWDL-SPLTR directly to **DMX 1** or **DMX 2** on the DIN-GWDL.
- DIN-GWDL-SPLTR connections:
 - Connect a light fixture daisy-chain to **OUT 1, 2, 3, or 4**.
 - Add the included 120Ω termination resistor to the DMX IN connector. The termination resistor is preinstalled in an included terminal block.
 - Cascading DIN-GWDL-SPLTRs is not recommended.
- Do not use more than 1,000 ft (305 m) of cable between a DIN-GWDL or DIN-GWDL-SPLTR and the last light fixture in a daisy-chain. Do not use more than 1,000 ft (305 m) of cable between a DIN-GWDL and a DIN-GWDL-SPLTR.
- A light fixture daisy-chain must be terminated at end of the run. A termination is included with each Crestron light fixture.
- RJ-45 adapters are included with the DIN-GWDL and DIN-GWDL-SPLTR and should be used for all DMX-C connections.
- Do not connect CAT5 STP cables carrying DMX-C to Ethernet equipment.
- Mark CAT5 STP cables carrying DMX-C.
- Avoid long runs that are parallel with power cables
- If the cable may come into contact with fixtures or other hot objects, use CAT5 STP cable with an appropriate jacket.
- DMX-C lines cannot be split using a splitter cable or Y adapter. Use a DIN-GWDL-SPLTR instead.
- If the CAT5 STP cabling may be repurposed in the future for an Ethernet network, maintain cable lengths less than 328 ft (100 m). Longer CAT5 STP cable runs will not be able to carry Ethernet data.

If an obstruction is preventing use of an RJ-45 adapter, do not directly connect solid CAT5 STP cable to the 3-pin connector. Screw-down connectors may damage or weaken the wires.

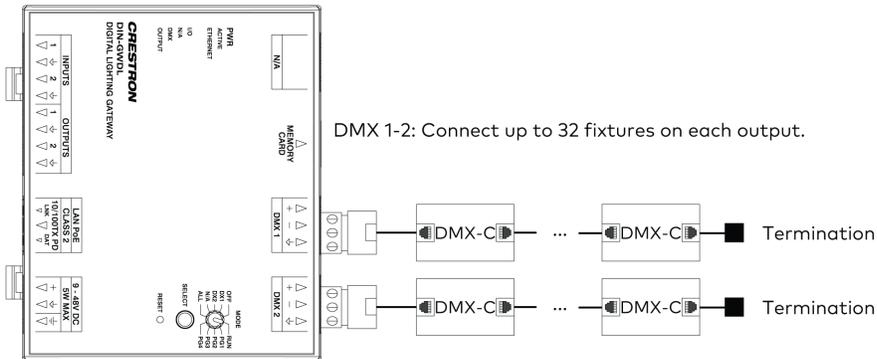
- To avoid obstructions:
 - In a DIN-EN-2X18, do not mount the DIN-GWDL or DIN-GWDL-SPLTR in the top position.
 - Do not mount a DIN-GWDL-SPLTR directly above another DIN-GWDL-SPLTR.

- If an obstruction cannot be avoided, a 12 in. (304 mm) or less length of [Cresnet® cable](#) can be used between a DMX-C output of a DIN-GWDL and the DMX-C input of a DIN-GWDL-SPLTR.
 - Connect White to +.
 - Connect Blue to -.
 - Connect Black to C.
 - Connect the drain wire to C on the DIN-GWDL's DMX-C output.

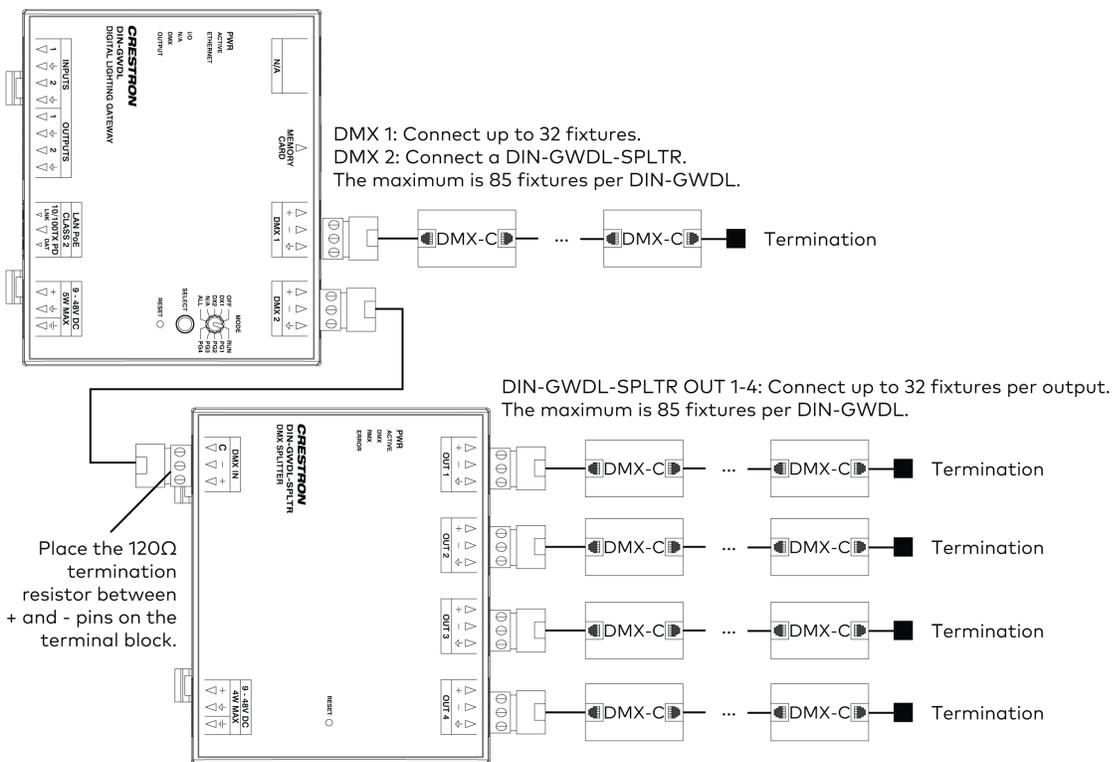
DMX-C Connections

Using the included RJ-45 adapters, daisy chain light fixtures to **DMX 1**, **DMX 2**, and **OUT 1-4** as shown below.

DIN-GWDL Gateway Connected to Crestron Light Fixtures



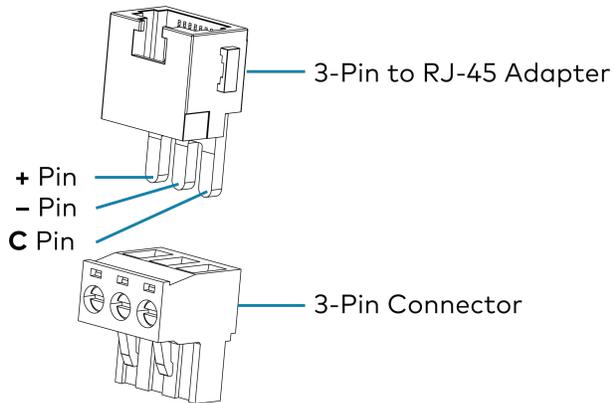
DIN-GWDL and DIN-GWDL-SPLTR Connected to Crestron Light Fixtures



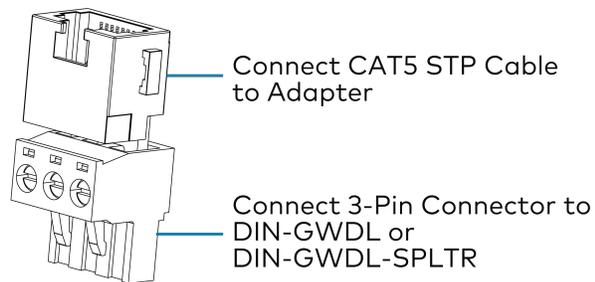
RJ-45 to 3-Pin Adapter

Use the RJ-45 to 3-pin adapter to connect the CAT5 STP cable to the DIN-GWDL and DIN-GWDL-SPLTR.

Adapter 3-Pin Pinout



Adapter Connections



RJ-45 Pinout for DMX-C

Use the pinout shown below when terminating CAT5 STP cable.

RJ-45 Pinout for DMX-C Connections and RJ-45 Adapters



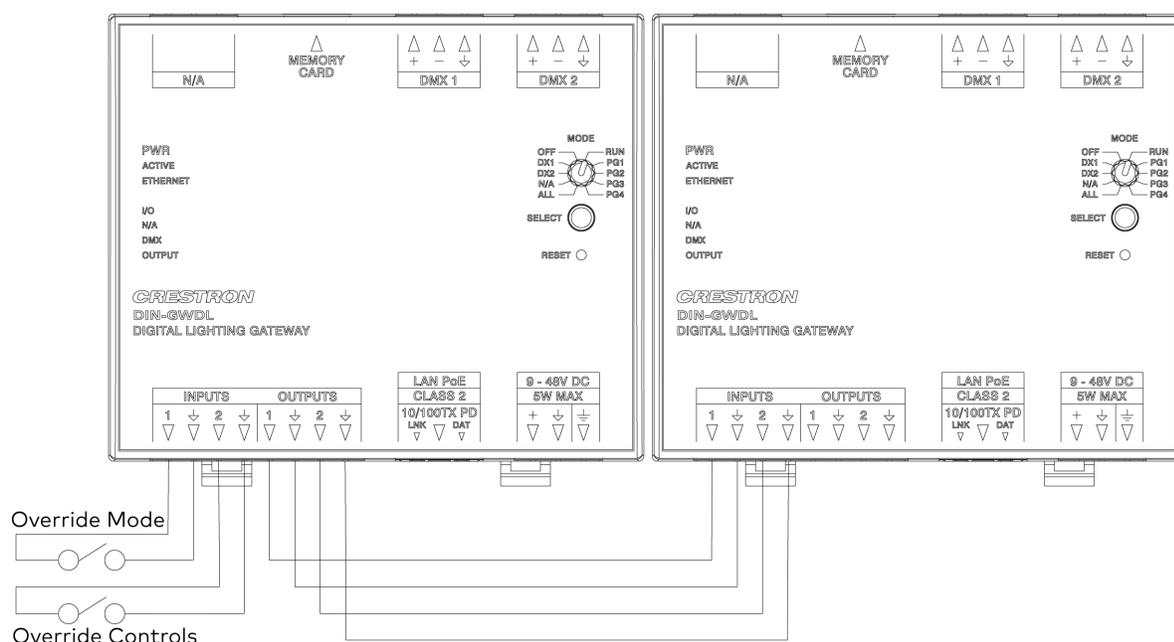
Power

The DIN-GWDL can be powered by PoE or local power. The DIN-GWDL-SPLTR requires local power. For local power, use Crestron power supplies [PW-2407-RU](#), [PW-2407WUL](#), [DIN-PWS60](#), [DIN-PWS30-277](#) (all sold separately).

- DIN-GWDL: Connect a PoE source into the **LAN PoE** port. If not using PoE, connect a 9-48VDC power supply to the DIN-GWDL's **9-48VDC** port.
- DIN-GWDL-SPLTR: Connect a 9-48VDC power supply to the DIN-GWDL-SPLTR's **9-48VDC** port.

Override Ports

The Override ports of the DIN-GWDL enable the use of contact closures to control all connected light fixtures in the event of an emergency or network outage.



Inputs

The input ports are used to manually turn on and off all connected lights through Override mode.

- **INPUT 1:** A closed contact enables Override mode.
 - **Closed:** Override mode is enabled.
 - **Open:** Override mode is disabled. Connected lights function normally.

- **INPUT 2:** This contact controls all connected lights, but only functions when Override mode is enabled.
 - **Closed:** All connected lights are forced off.
 - **Open:** All connected lights are forced on.

NOTE: If nothing is connected to **INPUT 2**, enabling Override mode will force on all connected lights.

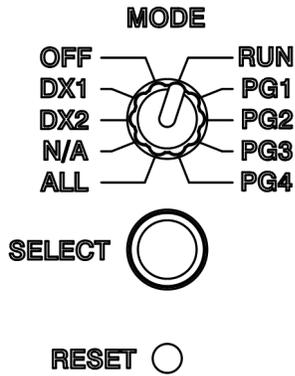
Outputs

OUTPUT 1 and **OUTPUT 2** repeat the signals from the corresponding **INPUT**. These can be connected to an additional DIN-GWDL's **INPUT** or to another device's override inputs.

Local Control

Test and control connected light fixtures without a control processor to verify the system. Use the **MODE** rotary dial and **SELECT** to change the local test modes of the DIN-GWDL.

Mode Dial with Select and Reset Buttons



NOTE: PG3 and PG4 are reserved for future use. N/A has no function.

Set All Fixtures to Neutral White

To provide light control prior to control system installation, use **PG1** to turn all lights on (at neutral white) and off. **PG1** stops the program, ignores any network commands, and sets all fixtures to neutral white at 100% intensity.

NOTE: This requires all DMX-C fixtures to be new from the factory or to have been previously addressed by Crestron Home.

- Tap **SELECT** to turn all fixtures on and off.
- Hold **SELECT** to dim all fixtures up and down.

Cycle Intensity, CCT, Saturation, and Hue

NOTE: This requires all DMX-C fixtures to be new from the factory or to have been previously addressed by Crestron Home.

Use **PG2** to continuously cycle through intensity, CCT, saturation, and hue settings on all connected fixtures. This mode can be used to test system wiring and verify that there are no defects with connected light fixtures. **PG2** stops the program, ignores any network commands, and turns off all addresses on the DALI output. The intensity, CCT, saturation, and hue are set to 0 for all connected fixtures.

- Each value individually ramps over 10 seconds, in this order:
 - Intensity: 0%-100%
 - CCT: 1650K-8000K
 - Saturation: white to red
 - Hue: all colors
 - Intensity: 100%-0%
- Press **SELECT** to pause or resume the sequence.

Everything Off

Use **OFF** to turn off all connected lighting fixtures. **OFF** also stops the program and ignores any network commands.

Test DMX 1 Output

Use **DMX 1** to test all light fixtures connected to the **DMX 1** output. **DMX 1** stops the program, ignores any network commands, and turns off all fixtures connected to the **DMX 2** output by setting all **DMX 2** channels to 0. This also turns on (red) all fixtures connected to the **DMX 1** output by setting all **DMX 1** channels to 255.

- Tap **SELECT** to set all channels on **DMX 1** to 0 or 255 (off or red).
- Hold **SELECT** to ramp all **DMX 1** channels up or down.

Test DMX 2 Output

Use **DMX 2** to test all light fixtures connected to the **DMX 2** output. **DMX 2** stops the program, ignores any network commands, and turns off all fixtures connected to the **DMX 1** output by setting all **DMX 1** channels to 0. This also turns on (red) all fixtures connected to the **DMX 2** output by setting all **DMX 2** channels to 255.

- Tap **SELECT** to set all channels on **DMX 2** to 0 or 255 (off or red).
- Hold **SELECT** to ramp all **DMX 2** channels up or down.

Test All Fixtures (Varying Intensity)

Use **ALL** to test all connected light fixtures with varying intensity. **ALL** stops the program, ignores any network commands, and turns on all connected fixtures.

- Press and hold the **SELECT** button to reduce intensity at a rate of 20% per second (to a minimum of 1%).
- Press and hold the **SELECT** button again to increase intensity at a rate of 20% per second (to a maximum of 100%).
- Tap **SELECT** to turn all fixtures on and off.

Factory Reset

Press and hold **RESET** for five seconds to restore the DIN-GWDL to factory settings.

Configuration

The DIN-GWDL is configured through the **Crestron Home Setup App**. For more details, see the [Crestron Home manual](#). Set the **MODE** rotary dial to **RUN** and press **SELECT** for use with Crestron Home.

A web configuration interface is provided with some basic functionality, but is not required for most installations. It is primarily used for advanced network setup or troubleshooting.

This section provides the following information:

- [Accessing the Web Configuration Interface](#)
- [Home](#)
- [Log](#)
- [Output](#)
- [Configuration](#)

Accessing the Web Configuration Interface

To access the web configuration interface:

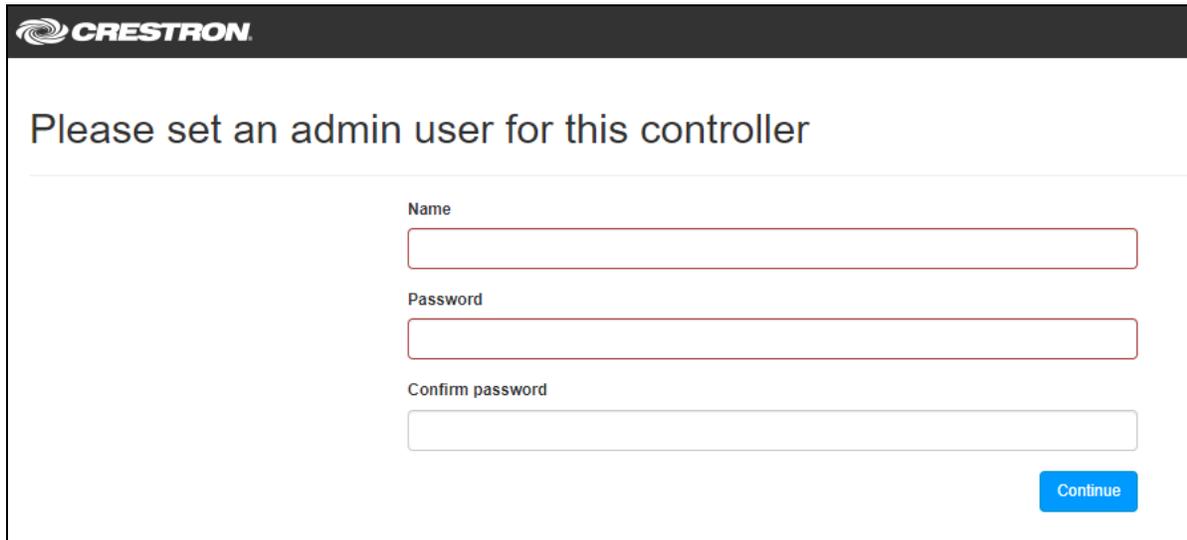
1. Connect the DIN-GWDL to the network.
2. Use the Device Discovery tool in Crestron Toolbox™ software to discover the DIN-GWDL and its IP address on the network.
3. Select **Web Configuration** in Device Discovery or enter the control system IP address into a web browser. **https://** must be included in the URL when navigating to the web configuration interface.
4. Enter the user name and password, then click **Submit**.

The web configuration interface can also be accessed through **Device Settings** in the Crestron Home Setup App.

The first time the web configuration interface is accessed, the user will be asked to set an admin name and password (minimum eight characters). This name and password must be entered to access the web configuration interface and when adding the device to Crestron Home.

NOTE: If the device was connected in Crestron Home before accessing the web configuration interface, the admin name will be **CHDevice** and the password will be the Crestron Home Common Device Password.

Admin Creation Screen



The screenshot shows the Crestron Admin Creation Screen. At the top left is the Crestron logo. The main heading reads "Please set an admin user for this controller". Below this heading are three input fields: "Name", "Password", and "Confirm password". Each field is a simple rectangular box with a thin border. At the bottom right of the form is a blue button labeled "Continue".

After logging in, the user is presented with multiple tabs.

Web Configuration Interface Tabs



To log out of the web configuration interface, click the user icon and select **Log Out**.

Home

The Home tab displays information about the DIN-GWDL. Pressing the **Locate** button will cause the DIN-GWDL's LEDs to flash.

Home Tab

The screenshot shows the Crestron remote administration interface. At the top, there is a navigation bar with the Crestron logo and tabs for Home, Log, Output, and Configuration. The user is logged in as 'admin'. The main content area is titled 'Remote administration interface' and features a 'Locate' button in the top right corner. The interface is divided into five sections: Hardware, Project, Clock, Software, and Network Interface.

Hardware	
Product Type	DIN-GWDL
Channel Capacity	512
Serial Number	
MAC Address	
Memory Total	254384 KB
Memory Used	28292 KB
Memory Available	226092 KB
Data Storage Size	15193 MB
Boot Reason	Hardware Reset
Last Boot	04 May 2022 13:22:20
Uptime	0d 00h 01m 33s

Project	
Filename	configurationfile_v1.cdg
Name	Built in default configuration
Author	-
Uploaded On	04 May 2022 13:22:21
File Size	49 KB
Controller Number	1
Controller Name	Controller 1
Project Id	{8da4030f-cb5e-4905-860b-4fb60de4b6cb}

Clock	
Current Time	04 May 2022, 13:23:50
GMT Offset	0:00

Software	
Bootloader Version	0.9.5
Firmware Version	1.0.0

Network Interface	
IP Address	192.168.254.176
Subnet Mask	255.255.255.0
Default Gateway	192.168.254.254
Hostname	din-gwdl-0013b20c0042
Domain Name	home
DNS Server 1	192.168.254.254

Hardware

This section displays general information about the DIN-GWDL, such as serial number, MAC Address, and Uptime.

Project

This section displays information about the program running on the DIN-GWDL.

Clock

This section displays the DIN-GWDL's system time.

Software

This section displays the firmware and bootloader versions of the DIN-GWDL.

Network Interface

This section displays information about the network connection, such as the IP Address.

Log

The **Log** tab displays system logs for the DIN-GWDL. Press **Save** to save any logs in a .txt file and **Clear** to clear them from the DIN-GWDL.

To filter the logs:

- **Log Type:** Select **System**, **Project**, **Time**, **Output**, **IO**, **Trigger**, and/or **Controller API** to filter log messages by type. To clear the filters, select **Clear filters**.
 - **System:** Hardware settings during boot up and when changes are made.
 - **Project:** Project file information, such as when projects are opened or closed.
 - **Time:** Built-in clock events, such as astronomical calculations or when a new day starts.
 - **Output:** Lighting output configuration information.
 - **IO:** Local hardware interface messages.
 - **Trigger:** Internal project triggers being processed.
 - **Controller API:** Controller API calls being received, processed or acted upon.
- **Log Level Filter:** Select **Critical**, **Terse**, **Normal**, **Extended**, **Verbose**, or **Debug** to filter messages based on importance. The default is **Normal**.

NOTE: The available options depend on the **Log Level** selected on the **Configuration** tab. By default, only **Critical**, **Terse**, and **Normal** are selectable.

- **Critical:** Critical events, such as the controller booting up.
 - **Terse:** Project loading and other important events that may impact lighting schedules, such as the next sunset or sunrise.
 - **Normal:** Normal activity, such as a user logging in.
 - **Extended:** System actions, such as contact closure outputs.
 - **Verbose:** The flow of all events and individual fixture controls.
 - **Debug:** Detailed information typically only used when debugging a program.
- **Text:** Enter a keyword for a specific keyword search.

Log Filtering Options

The screenshot shows the 'Log' interface with the following elements:

- Header: 'Log' with 'Current Level: Normal' and 'Save' and 'Clear' buttons.
- Log Type Filter: A row of buttons for 'System', 'Project', 'Time', 'Output', 'IO', 'Trigger', and 'Controller API', followed by a 'Clear filters' button.
- Text Filter: A text input field with a placeholder 'Text Filter' and a clear 'x' button.
- Log Level Filter: A dropdown menu currently set to 'Normal'.
- Show 50 lines: A dropdown menu set to '50 lines'.

Output

The **Output** tab shows the current DMX level for each channel. The **Columns** slider adjusts the channel display grid.

Output Tab

The screenshot displays the Crestron Output tab interface. At the top, there is a navigation bar with 'Home', 'Log', 'Output', and 'Configuration'. Below this, there are controls for 'Protocol' (set to DMX), 'Universe' (set to 1), and a 'Columns' slider. A status bar at the top right shows 'Unpatched', 'Active', 'Output Live', and 'Parked'. The main area is a 16x32 grid of channel status indicators, each showing a channel number and a DMX level (e.g., 000). At the bottom, there are input fields for 'Park Channels' and 'Level', and buttons for 'Park' and 'Unpark channel'.

Parking removes a channel (1-512) from program control and permanently forces it to a specific level (0-255). To park a channel, perform the following steps.

1. Enter the channel numbers to be parked in the **Channels** field.
2. Enter the level (0-255) in the **Level** field.
3. Select **Park**.

The parked channels will remain at the specified level until they are unparked. To unpark, enter the channels in the **Channel** field and select **Unpark**.

NOTE: Multiple channels can be parked or unparked simultaneously. Separate the channels with commas or use a - to indicate a range of channels. For example, **1,3,10-13,15** will affect channels 1, 3, 10, 11, 12, 13, and 15.

Configuration

The **Configuration** tab is used to modify the settings of the DIN-GWDL.

Configuration Tab

DIN-GWDL Settings 001041

Upgrade Firmware Factory Reset Reboot Locate

Home Log Output Configuration admin

Network

Use DHCP to obtain IP address

IP Address: 192.168.254.176 / 24

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.254.254

DNS Servers: 0.0.0.0, 0.0.0.0

Web Server

HTTPS Port: 443

Warning: ports below 1024 may be used by other protocols. Port 443 is reserved for HTTPS.

Date and Time

Date and Time: 02/05/2022 15:03:37

Sync time automatically with an SNTP server

Server IP address: 0.0.0.0

NTP servers also support SNTP.

Set Log Level

Log level: Normal

For best performance, set the log level to Normal once commissioning is complete.

Syslog

Remote logging via Syslog

Server IP address: 0.0.0.0

Watchdog

Enable watchdog

The hardware watchdog will reset the Controller automatically in case of a software crash as a result of either a bug or a random electromagnetic event such as a power brown-out or spike, nearby lightning strike or static discharge. A startup trigger will be required to determine what the Controller should do after such a reset.

Commit

Security

Add User

Users	Admin	Control	Status	
User	✘	✔	✔	Edit Delete
admin	✔	✔	✔	Edit

Actions

The blue action buttons in the upper right perform the following functions:

- **Upgrade Firmware:** Select a firmware file to send to the DIN-GWDL.
- **Factory Reset:** Restore the unit to factory defaults. This will clear the user name, password, and all settings.
- **Reboot:** Perform a software reboot.
- **Locate:** LEDs on the DIN-GWDL will blink on and off until the **Locate** button is pressed again.

Save Changes

To save changes made on the **Configuration** tab, select  **Commit**.

Network Settings

Use the Network section to configure the connection to the Ethernet network. DHCP is turned on by default and the fields are automatically populated.

To set custom Ethernet settings:

1. Deselect **Use DHCP to obtain IP address**.
2. Enter the **IP Address**, **Subnet Mask**, **Default Gateway**, and **DNS Servers**.
3. The default web server port is 443. To change the port, enter a new port number in the **HTTPS Port** field.

Time Settings

The current date and time is displayed. To change the date and time, select the calendar icon and select the new date and time. To set the time using an SNTP server, select **Sync time automatically with an STNP server** and enter the **Server IP address**.

System Log Settings

Use **Log level** to set the frequency of event logging. This selection also determines which **Log Level Filters** are available on the **Log** tab. Click **Remote logging via Syslog** and enter the **Server IP address** to enable remote logging.

Watchdog

The watchdog function automatically resets the DIN-GWDL in the event of a software crash as a result of a power brown-out or spike, nearby lightning strike, static discharge or other circumstance. To enable **watchdog**, click the checkbox.

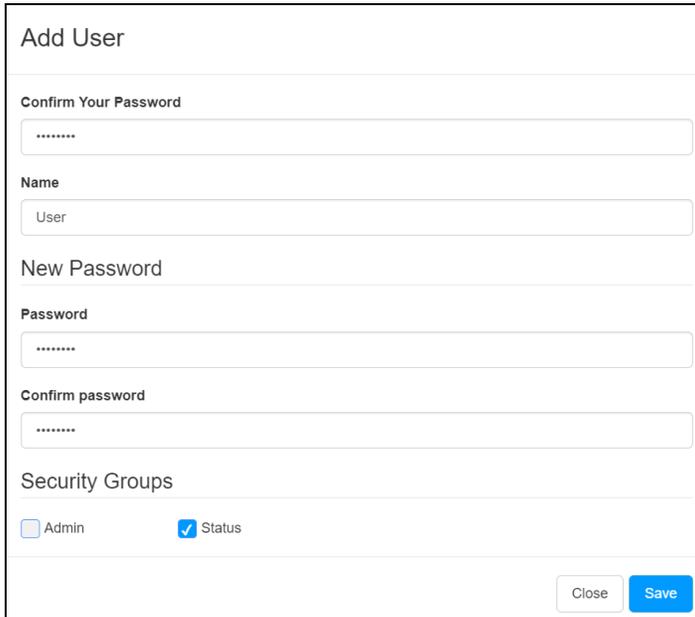
Security

The security section lists all registered users and which functions they can access. By default, only the admin user exists.

To add an additional user, perform the following steps:

1. Select **Add User**.
2. Enter the admin password in the **Confirm Your Password** field.
3. For the new user, enter a name in the **Name** field and a password in the **Password** and **Confirm password** fields.
4. Select a **Security Group** for the new user:
 - **Admin**: The user will have full access.
 - **Status**: The **Configuration** tab will be blocked and no changes can be made on the **Output** tab.
5. Click **Save**.

Add User Screen



The screenshot shows a form titled "Add User" with the following fields and options:

- Confirm Your Password**: A text input field containing "*****".
- Name**: A text input field containing "User".
- New Password**: A section containing two text input fields:
 - Password**: A text input field containing "*****".
 - Confirm password**: A text input field containing "*****".
- Security Groups**: A section with two radio button options:
 - Admin
 - Status

At the bottom right of the form are two buttons: "Close" and "Save".

Users can be edited by selecting **Edit** or deleted by selecting **Delete**.

Resources

The following resources are provided for the DIN-GWDL and DIN-GWDL-SPLTR.

NOTE: You may need to provide your Crestron.com web account credentials when prompted to access some of the following resources.

Crestron Support and Training

- [Crestron True Blue Support](#)
- [Crestron Resource Library](#)
- [Crestron Online Help \(OLH\)](#)
- [Crestron Training Institute \(CTI\) Portal](#)

Product Certificates

To search for product certificates, refer to support.crestron.com/app/certificates.

Related Documentation

- [Crestron Home® OS](#) Product Manual
- [LFX-DL-TUNC and LFXA-DL-DEMO](#) Product Manual

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