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C-ART-EU8 DMX Controller

Everylite Datasheet Ver 2.2
Revision Date 04/2020



Features

- 8 DMX512 universes in live mode (computer)
- eDMX to DMX512 converter
- Supports DMX512/1990
- Multi-Protocol Support ArtNet/sACN/ESP
- Ethernet connectivity for programming/control/supervision
- Network communication. Control lighting remotely
- iPhone/iPad/Android remote and programming apps
- Windows/Mac software to set dynamic colors/effects
- Static or Dynamic (DHCP) Ip configuration



Technical Parameters

Input Power	Output Protocol	Programmability	Connections
100 ~ 260 VAC	DMX512	PC, Mac, Tablet, Smart-phone	IEC Connection for AC Voltage, 8DMX (RJ-45) ports, RJ-45 connector for a 10Base-T Ethernet Connection
Indicators	Working Temperature	Standards	Dimensions (L x W x H)
3 LED indicators (RGB Status, Ethernet link speed and Ethernet activity)	(32 ~122) °F	EC	(7.5 x 4.2 x 1.8) in

Hardware



Interfaces

Status

Status LED Indicators provide information about the RGB system and Networking, located on the right side of the front panel:

RGB Status LED:

White - idle, signifies the controller is operation normally.

Green - DMX Data is being output. The LED will fade from White to Green.

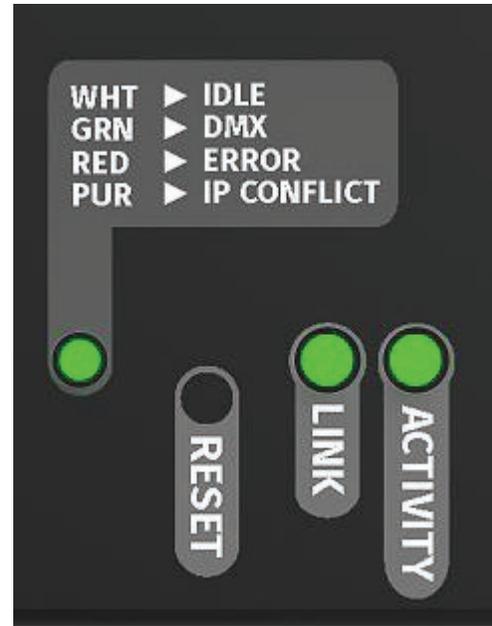
Red - (Blinking) Error State. Requires a Firmware update or needs to be rebooted. A reset might be required, if it stays in error- mode on reboot.

Purple - (Blinking) IP Address Conflict. Please change the IP address manually or enable DHCP.

Cyan - Merge sources exceeded. Either merge is disabled or more than two sources are being received by the controller.

Ethernet Link Speed: is ON when there's an active Ethernet Link @100mbps. It will stay OFF @10mbps.

Ethernet Activity: This LED indicator blinks when there is activity on the Ethernet Network.



Factory Reset

Activating Factory Reset, leads to a simple prompt confirming your action and restores the network configuration of the controller to factory defaults:

- DHCP is set to enabled
- Static IP address is mapped to the Serial number of the unit (Used if DHCP is unavailable)
- Netmask is set to 255.0.0.0

To successfully reset to Factory defaults of the controller the following procedure must be performed:

- Power Off unit
- Press and Hold the Reset button
- While holding the Reset button, Power up the unit, and keep holding the button for 3 seconds
- Release the Reset button once the Status LED starts blinking Red
- Wait 3 seconds and cycle power



Interfaces

NMU

NMU (Node Management Utility) is free Windows and OSX application used to manage compatible eDMX (DMX over Ethernet) nodes. NMU will not directly allow you to configure the controller itself, but it can help you find your unit's IP address and then open a browser window to make the required changes.

To employ the NMU, follow this set of instructions:

- 1.- Download and Install the application from our website.
- 2.- Ensure your controller is hooked up physically to the same physical network as the computer you're running the NMU.
- 3.- Start the application.
- 4.- Press "Discovery" button.
- 5.- Select the controller.
- 6.- An IP Address will be shown next to any controller with its location.
- 7.- Click on the link and open the browser window for that controller, if desired.

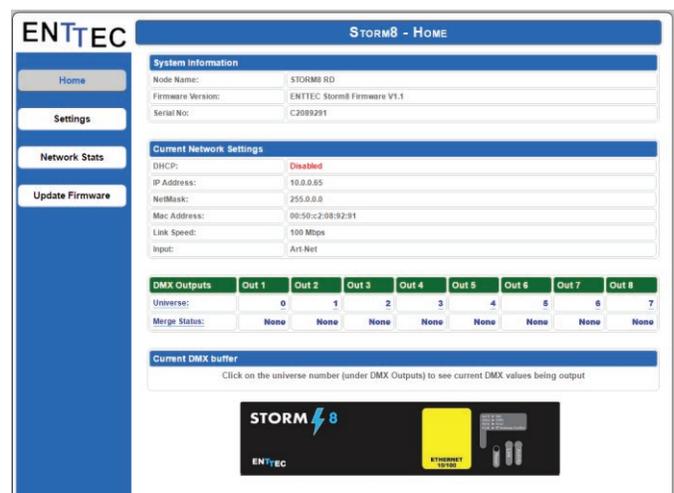


Web Interface

The controller is configured, controlled and programmed through a web browser interface running on a computer system located on the same Local Area Network (LAN). Any modern web browser, such as Chrome, Firefox, Internet Explorer, Safari or Opera, running under any operating system, including Windows xP or Vista, Mac OS or Linux can be used.

Either click on the underlined URL displayed in NMU, or type the IP address (as detected by NMU) into your web browser to access the Web Interface. The left side menu allows all the controllers' web pages to be accessed.

Home page provides the following information:



Interfaces

System Information: Name, Firmware Version and Serial No. of the unit. The Serial No. is unique to this unit and can be used to identify this unit.

Current Network Settings: Configured IP address and Link speed for the unit.

DMX Output: A DMX output data snapshot can be seen by clicking the port number. Merge status is also shown under the port of convenience. Any merge errors will be shown here.

To change any of the displayed settings, you must use the Settings page.

Settings

Create a new profile or edit an existing one using the profile-editor. This opens in a new page in your web browser, the Node name is used to identify the unit on the network. Any meaningful name can be used.

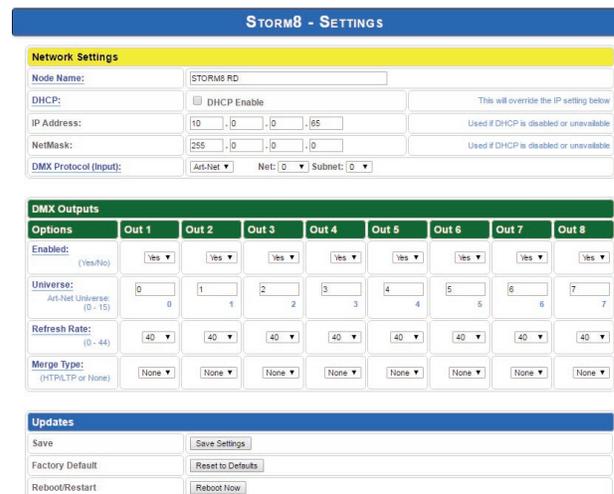
DHCP: is enabled by default. When enabled, the router on your network is expected to automatically provide the IP address to the unit. If no DHCP router/server is present on the network, the manual IP address will be used.

If for some reason, the controller doesn't get an IP address via DHCP, please restart the device with the Ethernet cable connected. It'll listen for DHCP on start-up and wait for a few seconds, before terminating the process if unsuccessful.

IP Address and Netmask: are only used if DHCP is disabled or unavailable on your network. The controller's web-page will warn you, if non-standard IP address or Netmask is used.

If you manage to use an IP Address that can't be connected to later, please perform the reset procedure. The reset will re-enable DHCP on the controller.

Universe can be selected from the DMX Port settings.



The screenshot shows the 'STORM8 - SETTINGS' web interface. It is divided into three main sections: Network Settings, DMX Outputs, and Updates.

Network Settings: This section includes fields for Node Name (STORM8 RD), a checkbox for DHCP Enable, IP Address (10.0.0.85), NetMask (255.0.0.0), and DMX Protocol (Art-Net). There are also dropdown menus for Net and Subnet.

DMX Outputs: This section is a table with columns for Out 1 through Out 8. Each column has an 'Enabled' checkbox, a 'Universe' dropdown menu, and a 'Refresh Rate' dropdown menu. The 'Merge Type' is set to 'None' for all outputs.

Updates: This section contains three buttons: 'Save Settings', 'Reset to Defaults', and 'Reboot Now'.

Interfaces

DMX Protocol: allows to pick the input eDMX (DMX over the Ethernet) protocol that the controller will act on. Available options are Art-Net, sACN and ESP.

Art-Net Address: Net and Subnet can be selected here, and comply with the Art-Net 3 protocol.

DMX Outputs

The DMX Outputs table allows all settings to be modified individually for each DMX Port. The options for each Port are:

Enabled

Select whether to enable or disable the DMX port. When enabled, the port will constantly output DMX at the selected refresh rate.

Universe

Allows for selection of the Ethernet universe that will drive the DMX output. For Art-Net universes, please change the Net/Subnet to increase the combined universe beyond 15. (Combined universe is shown under the selection).

Refresh Rate

Select appropriate refresh rate to control how often the output is refreshed.

- 0= Follows no source (no repeats)
- Max= Send as fast as possible.

Merge Type

Decides how to act when multiple sources are sending the same universe to the port. Max of 2 sources are permitted to be merged to create a new output. Select between the following options:

- None= Merging is disabled. Supports 1 source only.
- HTTP= Highest Takes Precedence (2 sources)
- LTP= Latest Takes Precedence (2 sources).



Interfaces

Updating the Application Firmware

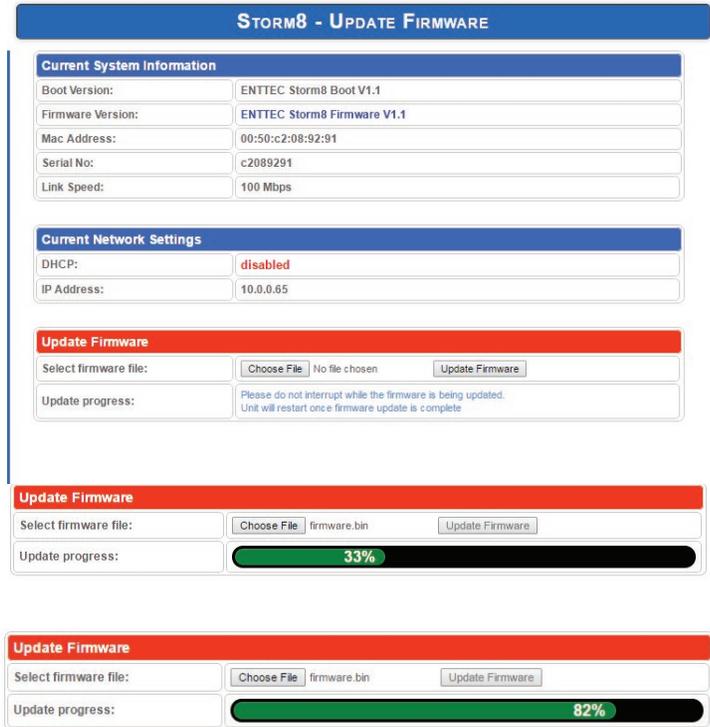
You can update the firmware on the controller, via the web browser. Download them to your desktop and then follow instructions in the controller's web browser page, under the Settings section.

NOTE: While the firmware is being updated, please do not power off the unit, please wait until the web page is processing (up to 2 min).

When the update is complete, the page will refresh and you'll be taken to the home page, where you can verify the firmware version.

If the web page doesn't refresh automatically, please open the home page on the browser manually, and verify that the update has succeeded.

The controller will reboot after a firmware update, please allow a few seconds for it to be refreshed in the browser.



STORM8 - UPDATE FIRMWARE

Current System Information

Boot Version:	ENTTEC Storm8 Boot V1.1
Firmware Version:	ENTTEC Storm8 Firmware V1.1
Mac Address:	00:50:c2:08:92:91
Serial No:	c2089291
Link Speed:	100 Mbps

Current Network Settings

DHCP:	disabled
IP Address:	10.0.0.65

Update Firmware

Select firmware file: No file chosen

Update progress: Please do not interrupt while the firmware is being updated. Unit will restart once firmware update is complete.

Update Firmware

Select firmware file: firmware.bin

Update progress: **33%**

Update Firmware

Select firmware file: firmware.bin

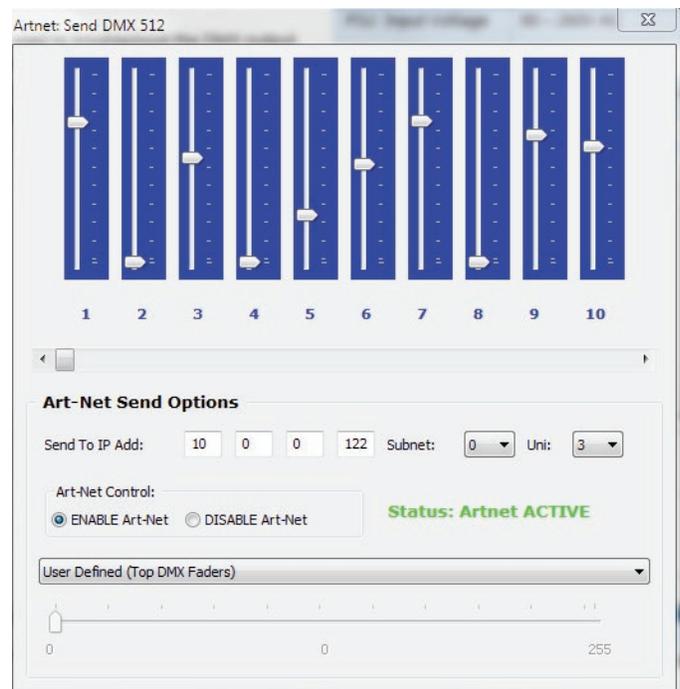
Update progress: **82%**

Art-Net Send and Test

NMU can also be used to troubleshoot the DMX output on the controller. Art-Net Test can be accessed from the top menu: Art-Net - Art-Net Test.

When first opened, the Art-Net is set to Disabled, please set it to Enabled, and then you can use either the DMX faders to test one or more DMX channels, or use the test-patterns from the options available.

Please set the controller to use Art-Net and on the same universe as being used to send Art-Net from NMU.



Artnet: Send DMX 512

10 DMX faders (1-10)

Art-Net Send Options

Send To IP Add: 10 0 0 122 Subnet: 0 Uni: 3

Art-Net Control:
 ENABLE Art-Net DISABLE Art-Net Status: Arnet ACTIVE

User Defined (Top DMX Faders)

0 0 255

Safety Information

1. The product shall be installed and serviced by a qualified person.
2. This product is a non-waterproof, indoor rated device. Please avoid the sun and rain.
3. Good heat dissipation will prolong the working life of the controller, please ensure good ventilation.
4. Please check if the output voltage of any power supplies used comply with the working voltage of the products.
5. Ensure all wire connections and polarities are correct and secure before applying power to avoid any damages to the LED lights.
6. If a fault occurs please return the product to your supplier. Do not attempt to fix this product by yourself.

Dimensions

