

Application Note

Control ArtNet Player with
ArtNet-DMX MUX16/24



General

This Application Note describes the procedure to control an ArtNet Player with control elements (e.g. buttons) via an ArtNet-DMX MUX16/24.

In this AppNote the 16 inputs of the ArtNet-DMX Mux16 are used for the direct call e.g. of the 16 programs in the ArtNet-Player 4.

It is possible to call directly up to 16 programs in the ArtNet-Player 4 via the ArtNet-DMX MUX16/24.

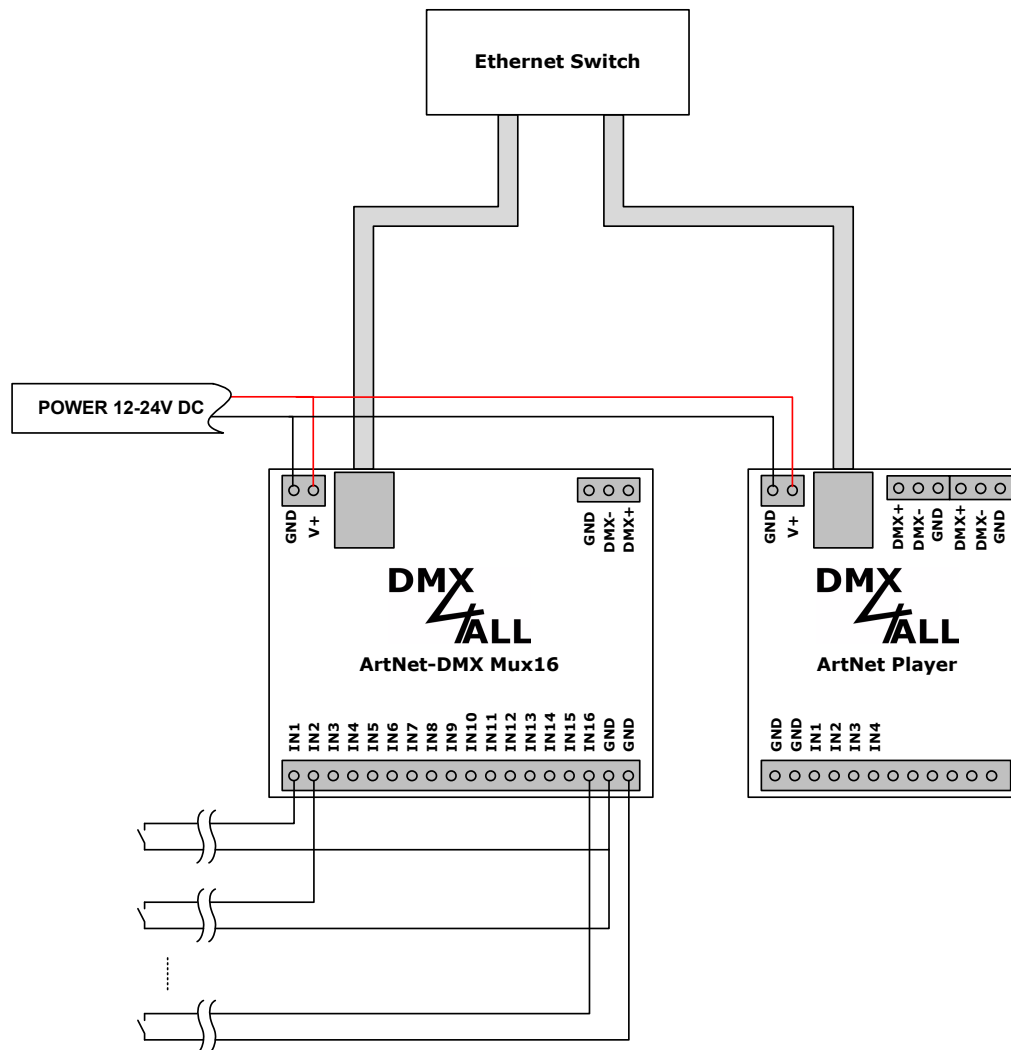
In this Application Note the IP range 2.0.0.x with the subnet mask 255.0.0.0 is used as provided in the ArtNet Specification. It is also possible to define and use other IP ranges like 192.168.1.x with the according subnet mask 255.255.255.0 .

Conditions

- DMX-Configurator
- ArtNet Player 4 with Firmware V1.17 or higher
- ArtNet-DMX MUX16 with Firmware V1.14 or higher
or
ArtNet-DMX MUX24 with Firmware V1.14 or higher

→ If a connection via DMX should be used follow from point 4!

1. Connect DMX-Player with ArtNet-DMX Mux16/24 via ethernet cable via an ethernet switch



2. Configure ArtNet-Player

Generate within the software DMX-Configurator the needed programs (Scenen) and select than the menu point Export → ArtNet Player 4.

In this example the ArtNet-Player is configured to the IP 2.0.0.6

To control the ArtNet Player from the ArtNet-DMX Mux16/24 the ArtNet Remote Option must be activated (Remote → ArtNet → Enable).

Activate ArtNet Remote and define parameter for Net SubNet and Universe

Start-Ch. is the first DMX channel for the 3 Remote channels.



Use a different Net setting for the ArtNet-Remote setting to avoid a data conflict.
(Example Net=1)

3. Configure ArtNet-DMX Mux16/24

The ArtNet-DMX Mux16/24 gets the IP 2.0.0.5 and within the ArtNet Output Parameter the destination IP, destination Net, destination Subnet and the destination Universe for the ArtNet Player are set.



If the option ***Send Data only on change*** is activated, a data package is sent one time by activation the input to the ArtNet Player.

If several ArtNet-DMX Mux16/24 are used to increase the number of inputs this option must be activated!

For the inputs, **Button** is set as mode and under Parameter for each input is defined which DMX values should be output:

DMX channel 1 corresponds to the program, DMX channel 2 to the speed (here all 255/100%) and DMX channel 3 to the brightness (here all 255/100%).

→ See user manual ArtNet Player

Inputs 1-8:

DMX4ALL

ArtNet-DMX Mux16

Input 1-8 Settings

▶ Main

▶ IN 1-8

▶ IN 9-16

▶ Service

Input 1

Mode: Button

Parameter:

☒ Status Output

Input 2

Mode: Button

Parameter:

☒ Status Output

Input 3

Mode: Button

Parameter:

☒ Status Output

Input 4

Mode: Button

Parameter:

☒ Status Output

Input 5

Mode: Button

Parameter:

☒ Status Output

Input 6

Mode: Button

Parameter:

☒ Status Output

Input 7

Mode: Button

Parameter:

☒ Status Output

Input 8

Mode: Button

Parameter:

☒ Status Output

Save

User Information

The inputs 1-8 of the ArtNet-DMX Mux16 can be used in different modes.

For each input the mode and channels can set independent from the other inputs.

Use a comma separated channel list with up to 30 chars to select the channels for the given input.
E.g. "1,4,7" to control channel 1 and 4 and 7 with the input.

Use the character = to specify the value for the channels in activated state.
E.g. "1=123" to set channel 1 to value 123 if activated
or "1,4,7=123" to set channel 1 and 4 and 7 to value 123.

Wakeup on LAN (WOL) support
The BUTTON mode can used for wakeup devices via WOL.
Use "WOL(xx-xx-xx-xx-xx-xx)" to send a WOL packet to the MAC address xx-xx-xx-xx-xx-xx.

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Inputs 9-16:

ArtNet-DMX Mux16

Input 9-16 Settings

Input 9

Mode :

Parameter :

☒ Status Output

Input 10

Mode :

Parameter :

☒ Status Output

Input 11

Mode :

Parameter :

☒ Status Output

Input 12

Mode :

Parameter :

☒ Status Output

Input 13

Mode :

Parameter :

☒ Status Output

Input 14

Mode :

Parameter :

☒ Status Output

Input 15

Mode :

Parameter :

☒ Status Output

Input 16

Mode :

Parameter :

☒ Status Output

User Information

The inputs 9-16 of the ArtNet-DMX Mux16 can be used in different modes.

For each input the mode and channels can set independent from the other inputs.

Use a comma separated channel list with up to 30 chars to select the channels for the given input.
E.g. "1,4,7" to control channel 1 and 4 and 7 with the input.

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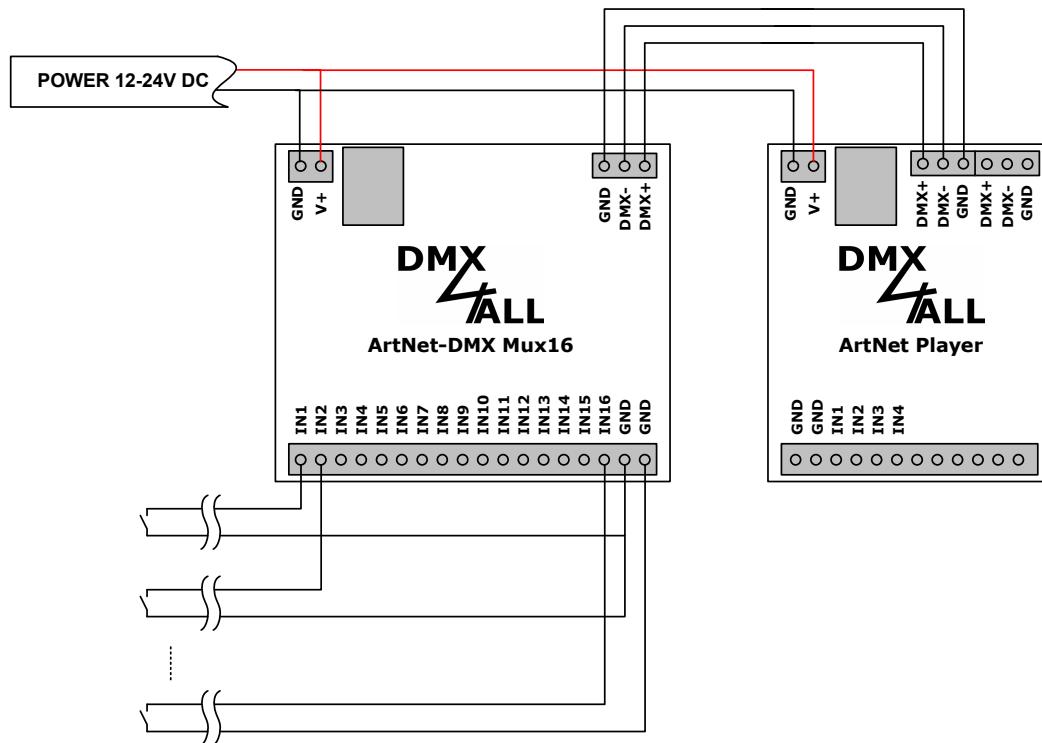
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It is possible to enter the parameter input in short form „1=0/255/255“ entering the DMX values sequential with a / separately.
(Firmware 1.20 or higher necessary)

4. Connect DMX-Player with ArtNet-DMX Mux16/24 per DMX



5. Configure ArtNet-Player for DMX remote

Generate within the software DMX-Configurator the needed programs (Scenen) and select than the menu point Export → ArtNet Player 4.

In this example the ArtNet-Player is configured to IP 2.0.0.6

This information is necessary but not used further on

Activate DMX Remote.

Start-Ch. is the first DMX channel for the 3 Remote channel

6. Configure ArtNet-DMX Mux16/24

The network settings are not used in case of Remote via DMX.

For the inputs, **Button** is set as mode and under Parameter for each input is defined which DMX values should be output:

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→ See user manual ArtNet Player

Inputs 1-8:

DMX4ALL ArtNet-DMX Mux16

Input 1-8 Settings

Input 1
Mode: Button
Parameter: 1=0,2=255,3=255
☒ Status Output

Input 2
Mode: Button
Parameter: 1=16,2=255,3=255
☒ Status Output

Input 3
Mode: Button
Parameter: 1=32,2=255,3=255
☒ Status Output

Input 4
Mode: Button
Parameter: 1=48,2=255,3=255
☒ Status Output

Input 5
Mode: Button
Parameter: 1=64,2=255,3=255
☒ Status Output

Input 6
Mode: Button
Parameter: 1=80,2=255,3=255
☒ Status Output

Input 7
Mode: Button
Parameter: 1=96,2=255,3=255
☒ Status Output

Input 8
Mode: Button
Parameter: 1=112,2=255,3=255
☒ Status Output

Save

User Information

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Wake up on LAN (WOL) support
The BUTTON mode can be used for wake up devices via WOL.
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Inputs 9-16:

ArtNet-DMX Mux16

Input 9-16 Settings

Input 9

Mode :

Parameter :

☒ Status Output

Input 10

Mode :

Parameter :

☒ Status Output

Input 11

Mode :

Parameter :

☒ Status Output

Input 12

Mode :

Parameter :

☒ Status Output

Input 13

Mode :

Parameter :

☒ Status Output

Input 14

Mode :

Parameter :

☒ Status Output

Input 15

Mode :

Parameter :

☒ Status Output

Input 16

Mode :

Parameter :

☒ Status Output

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(Firmware 1.20 or higher necessary)



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