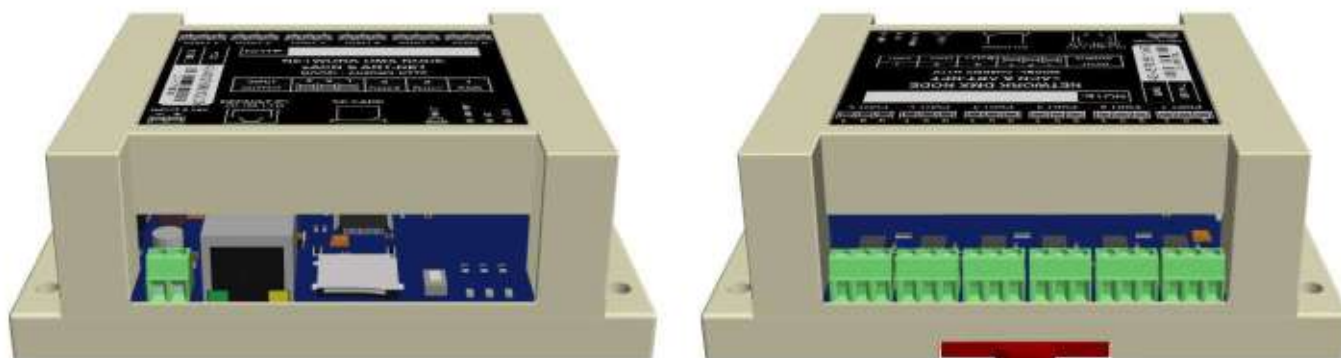
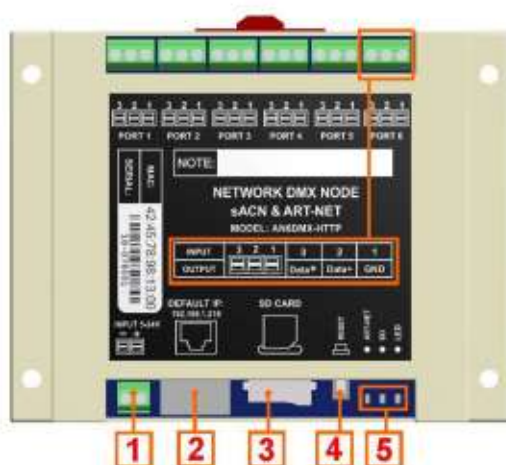


User manual 10.05.23

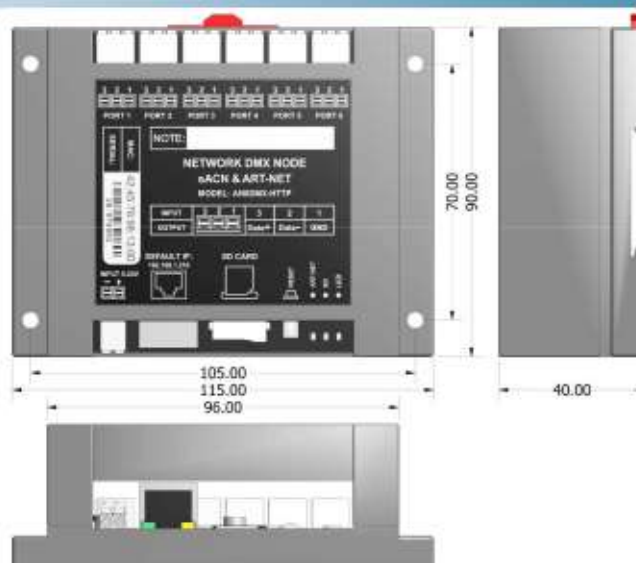


CONNECTION



Ref.	Function	Description
1	Power connector	5-24VDC
2	RJ45 Ethernet connector	10BaseT and 100BaseT isolation: 1 kV
3	microSD card slot	Firmware update, starting with an alternative configuration.
4	Push button	Reset - press and release, Factory reset - press and wait 10 sec, Firmware update - hold down and cycle power.
5	Leds	«ART-NET» -date received. «SD» - SD card activity. «LED» - power.

DIMENSIONS



Weight: 130 grams. DIN rail 35 mm.

DEVICE

DMX

AN6DMX can convert 6 Universes of Art-Net or sACN ethernet into DMX512-A. Output DMX signal has Brake 100µs and MAB 14µs.

PORTS

The lines don't have galvanic isolation. This must be used with a common power supply or with a device that has galvanic isolation of output lines. AN6DMX has an adjustable length of the input and output DMX512 packet within 16-512 channels. Ports are protected from overvoltage and impulse noise.

microSD

This controller can work without microSD card. The card is used to update the firmware and to startup the controller with an alternate configuration (SD loading mode). The files for the SD loading mode are supplied with the firmware. The card must be formatted as FAT32 before use.

Default network

IP: 192.168.1.210
 MASK: 255.255.255.0
 Gateway IP: 192.168.1.1

Configuration

Configuration is achieved via the internal web server. Enter access string in browser: <http://192.168.1.210> if the controller IP address is 192.168.1.210

ART-NET

Art-Net address universe numbers in the range 0-32767.

sACN multicast/unicast

Art-Net address universe numbers in the range 1-32767. In this firmware version sACN mode works as output only.

Mapping

AN6DMX can mapping channels of input ports to ART-NET or to output ports. Up to 5 input to output port or up to 6 input to ART-NET. **Mapping will be disabled if the Ports configuration has been changed.**
Note: Mapping has effect only for ART-NET in this fw. version.

HTP/LTP Merge

Merging will occur if two streams from different IP addresses are directed to the same port address. If more streams are directed to the same Port-Address, they will be ignored. If either (but not both) sources of ArtDmx stop, the failed source is held in the merge buffer for 10 seconds. If, during the 10 second timeout, the failed source returns, Merge mode continues. If the failed source does not recover, at the end of the timeout period, the Node exits Merge mode.

Note: only for ART-NET in this fw. version

Firmware update

Need to be done:
 Power controller OFF. Unpack and copy file «ED6BLUE.IMG» to the main directory of microSD card. Insert the microSD card to controller's microSD slot. Push and hold «RESET» button. Power controller ON. Wait 4 seconds. The glow of the «ART-NET» led indicates the correct start of the process. If the process is completed correctly, the SD led will light up.

DESCRIPTION

Home page

This page displays the main controller settings and port activity, updating the data on the input or output.



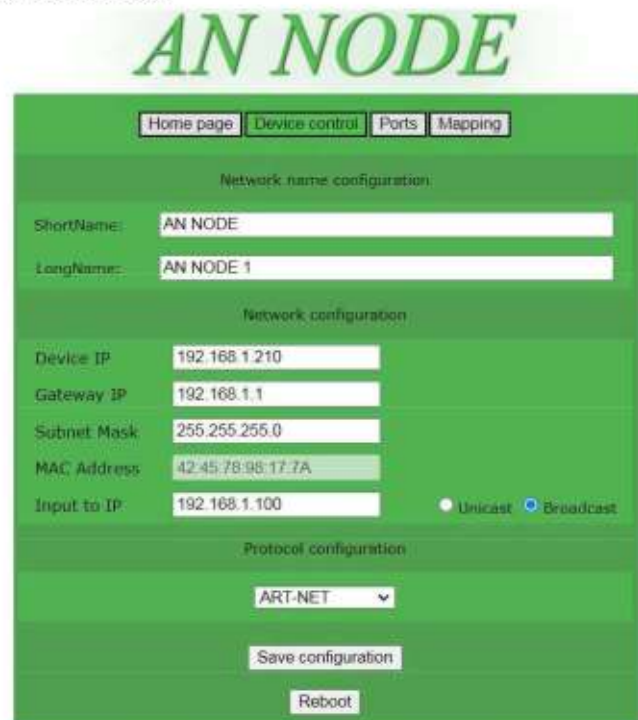
The screenshot shows the 'Home page' of the AN NODE web interface. It features a green header with the 'AN NODE' logo and a navigation bar with tabs: Home page, Device control, Ports, and Mapping. Below the navigation bar is a 'Device status' section with a table showing protocol and mapping settings, and a list of 6 output ports with their respective universe numbers and activity status.

Port	Universe	Activity
1	0	No
2	1	No
3	2	No
4	3	No
5	4	No
6	5	No

© AN NODE firmware AN DMX6 3.0B, web server V 2.0

Device control

This page for general controller settings. The Input to IP field configures the address to which the ART-NET input data packet will be sent. For example this can be sent to another controller or like Broadcast. The configuration must be saved and the controller must be rebooted for the settings to take effect.



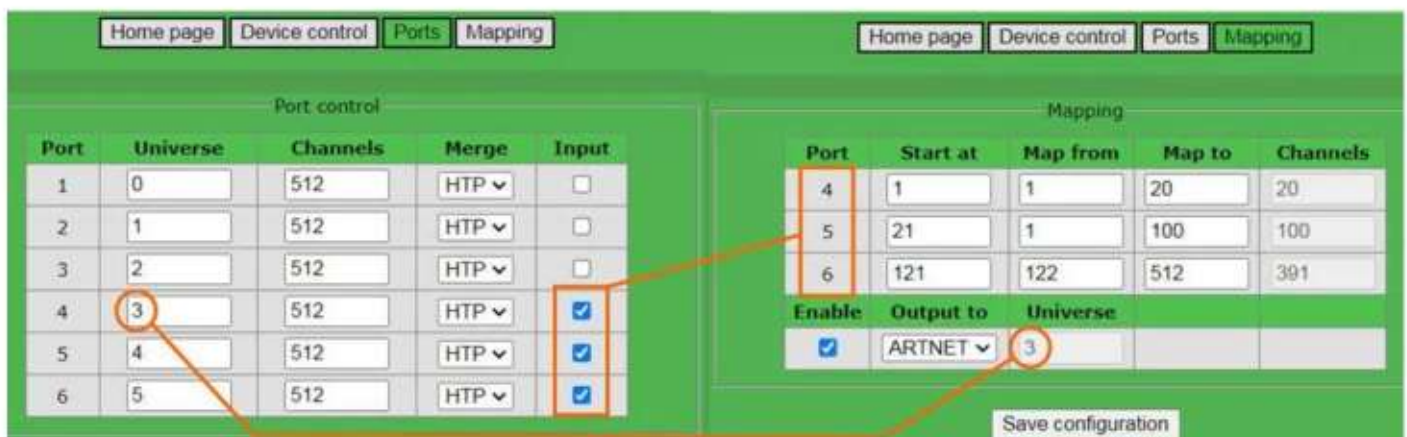
The screenshot shows the 'Device control' page of the AN NODE web interface. It features a green header with the 'AN NODE' logo and a navigation bar with tabs: Home page, Device control, Ports, and Mapping. Below the navigation bar is a 'Network name configuration' section with fields for ShortName and LongName. This is followed by a 'Network configuration' section with fields for Device IP, Gateway IP, Subnet Mask, MAC Address, and Input to IP, along with radio buttons for Unicast and Broadcast. Below this is a 'Protocol configuration' section with a dropdown menu set to 'ART-NET'. At the bottom are 'Save configuration' and 'Reboot' buttons.

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Ports and Mapping

Mapping options are related to the number of ports configured as an input in the Ports. The map universe can be sent as an ART-NET to the network or to one of the output ports. The universe number of the first input port in the list is the universe number to send.

The map universe that is sent to the output port will be merged with the ART-NET universe according to the HTP or LTP method.



The screenshot shows two side-by-side pages from the AN NODE web interface: 'Port control' and 'Mapping'. The 'Port control' page has a table with columns: Port, Universe, Channels, Merge, and Input. The 'Mapping' page has a table with columns: Port, Start at, Map from, Map to, and Channels. Both pages have a 'Save configuration' button at the bottom.

Port	Universe	Channels	Merge	Input
1	0	512	HTP	<input type="checkbox"/>
2	1	512	HTP	<input type="checkbox"/>
3	2	512	HTP	<input type="checkbox"/>
4	3	512	HTP	<input checked="" type="checkbox"/>
5	4	512	HTP	<input checked="" type="checkbox"/>
6	5	512	HTP	<input checked="" type="checkbox"/>

Port	Start at	Map from	Map to	Channels
4	1	1	20	20
5	21	1	100	100
6	121	122	512	391

Below the Mapping table, there is a section for 'Enable' and 'Output to' settings. The 'Enable' checkbox is checked. The 'Output to' dropdown is set to 'ARTNET'. The 'Universe' dropdown is set to '3'.

Links:

[YouTube examples.](#)

[Art-Net protocol.](#)

[DMX decoder.](#)

[DMX to WS2801 converter.](#)

[DMX to UCS1903,WS2811,WS2812\(B\) converter.](#)

[DMX converter to RGB RGBW pixel combination for WS2811 - WS2815 SK6812 GS8208.](#)

[Art-Net DMX to SPI controller.](#)

[FreeStyler.](#)

[Madrix.](#)

[Jinx.](#)

[eBay store.](#)