DIRECT Series Lighting Control Module

DR-32DMX

DMX512 32 Channel Signal Module

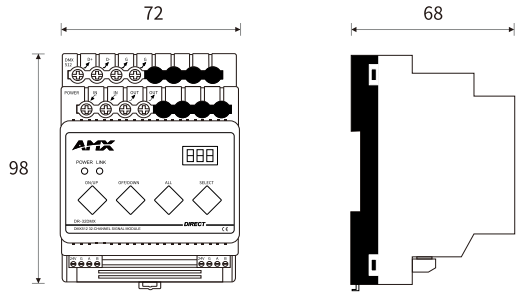
DR-32DMX adopts the DIN rail mounting mode. It contains 32 DMX dimming channels to achieve RGBW light strip effects and implement switching, dimming, and color matching to control LED wall washers, stage lights and other devices, with manual keys. It visually indicates the dimming status of each circuit.

Features

- Provide 32 DMX signal addresses. Each channel can independently control the brightness from 0 to 100 with feedback.
- Support scenes such as marquee lights, LED lights, and flashing lights.
- Immediately return the real-time dimming status of each circuit to the monitoring center after executing the scene command.
- Provide local and remote programming and testing functions.
- Provide manual keys as well as circuit and running status indicators, making it convenient for local debugging.
- Provide one built-in fire control interface, with one passive normally-open terminal and one active 24V terminal.
- Support online refresh of programs, with DR-Link bus disconnection fault alarm.
- Support RS485 and DR-LINK bus communication, and cascade up to 61 units.

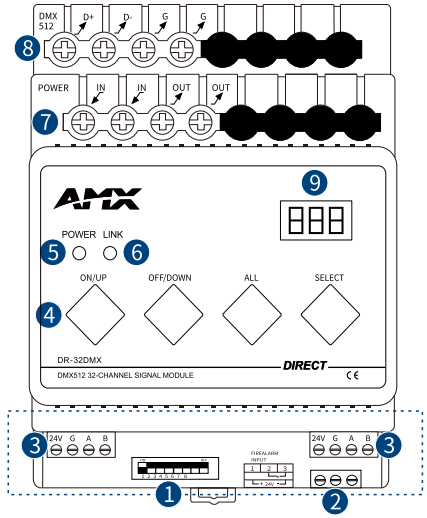
Technical Specifications

Operating voltage	24 V DC±5%
Maximum power consumption	≤0.79 W
Auxiliary relay	1×16 A/3520 W
Signal channel	32 DMX signal channels
Signal interface	1×DMX signal
Bus interface	2×DR-Link buses
Fire control interface	1×fire control interface
Display interface	1 x LED nixie tube
Operating temperature/humidity	-5°C to 45°C/≤90% RH
Storage temperature/humidity	-20°C to 60°C/≤93% RH
External dimensions (L × W × H)	72 mm × 98 mm × 68 mm
Mounting mode	Standard 35 mm DIN rail mounting
Net weight	≤199.5 g/PCS



Unit: mm

Product Structure



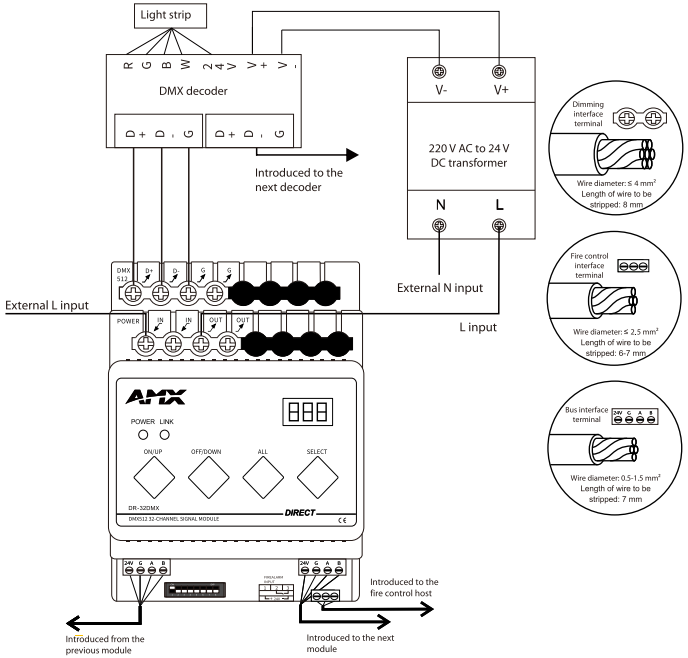
Note: When using the DIP switch and the fire control port, remove the baffle inside the dotted line box. To remove it, press the baffle down with your fingers, and then drag it backward to take it out.

1. Address setting: The factory default address is 01, and the address range is 01-63 (decimal). The address can be set using a 8-digit dial, binary dial mode. For setting method, see "address setting description" in the section "Wiring Diagram of a Single Product".
2. Fire control interface: passive terminal, active terminal.

   For usage method, see "fire control interface description" in the section "Wiring Diagram of a Single Product".
3. Bus interfaces: 24V, G, A, and B. When cascading with other bus interfaces, do not connect them wrongly.
4. Control keys:
   - ON/UP key: If you press the key, the brightness will automatically increase to 100%; if you press and hold the key, the brightness will gradually increase according to the pressing duration.
   - OFF/DOWN key: If you press the key, the brightness will automatically decrease to 0%; if you press and hold the key, the brightness will gradually decrease according to the pressing duration.
   - ALL key: Select all items. SELECT key: Select a single item.
5. POWER: Power indicator
6. LINK: Interconnection indicator. When this indicator is steady on, the interconnection is normal. When this indicator slowly blinks, the interconnection is abnormal.
7. Auxiliary relay output terminals: One in and one out. The aperture supports the connection to φ4 mm² wires.
8. DMX signal output terminals: D+, D-, GND, GND from left to right.
9. The second and third digits of the nixie tube are the dimming brightness value, with the range of 00-FL; the meaning of the first digit is as follows:

Meaning	Display	Meaning	Display	Meaning	Display	Meaning	Display	Meaning	Display	Meaning	Display
1	1	7	7	13	d	19	J	25	P	31	U
2	2	8	8	14	E	20	K	26	q	32	v
3	3	9	9	15	F	21	L	27	r		
4	4	10	A	16	G	22	M	28	S		
5	5	11	b	17	H	23	n	29	t		
6	6	12	C	18	I	24	o	30	U		

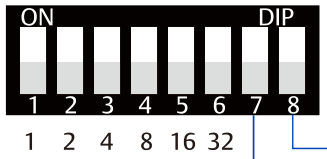
Wiring Diagram of a Single Product



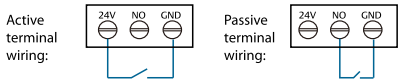
Address setting description

The DIP switch has 8 digits, namely, 1, 2, 4, 8, 16, and 32. Each digit represents a numerical value. The sum of the values represented by the digits dialed to ON is the address code of the device (as shown in the figure, address code 11 is: 1+2+8=11, and address code 30 is: 2+4+8+16=30).

The address setting range is 1-63. The device address must be unique in the system.



Fire control interface description



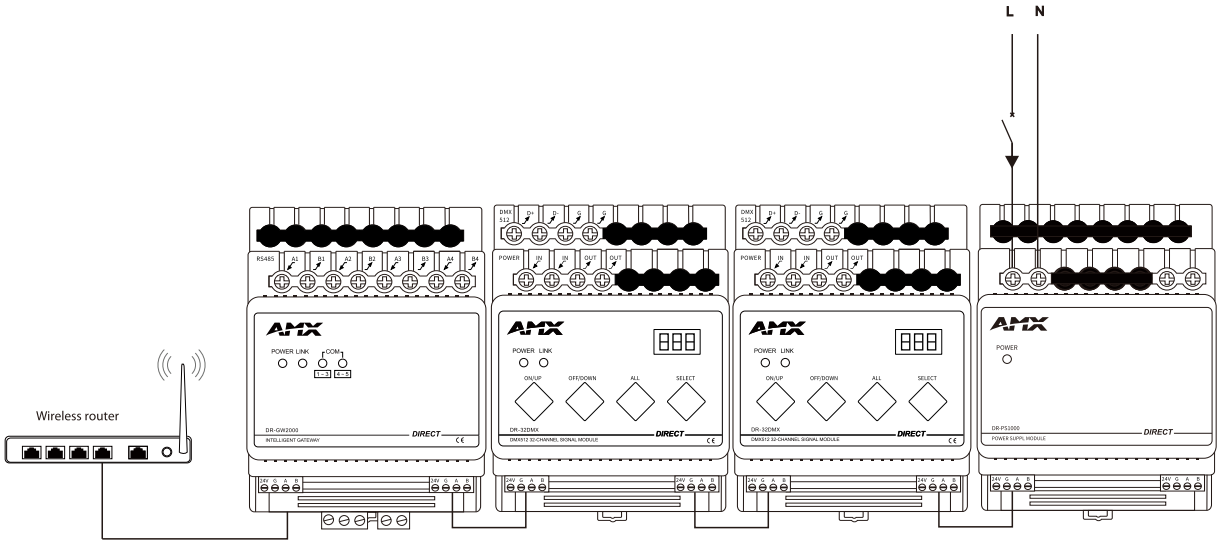
Active signals are input through the DC 24 V interface. Channels 1-32 are open.

Passive signals are input through the normally open interface. NO and GND are short-circuited. Channels 1-32 are open.

(When the fire control mode is released, channels 1-32 are closed.)

Note: In the fire control mode, the software and manual keys cannot be used to operate the device.

Wiring Diagram of Multiple Products



Safety Use and Maintenance

- Read all instructions carefully before using the product.
- Keep the environment well ventilated.
- During use, pay attention to moisture-proof, shock-proof and dust-proof.
- It is strictly forbidden to expose the product to rain, other liquids or corrosive gases.
- If the product is damp or the liquid enters the product, it should be dried in a timely manner.
- When the product fails, please contact professional maintenance personnel or HARMAN.

Contact Method

For documents related to AMX warranty and returns, please visit www.amx.com.

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