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BOTEX DMX Merge DM-2512 DMX Manager User Manual

BOTEX DMX Merge DM-2512 DMX Manager

Specifications

- Product Name: DMX Merge DM-2512
- Product Type: DMX Manager
- Date: 11.01.2024
- ID: 172666 (V4)

General Information

This document contains important instructions for the safe operation of the product. Please read and follow the safety instructions and all other instructions provided. Keep this document for future reference and ensure it is available to all users of the product. If you sell the product to another user, make sure they also receive this document. Our products and documentation are subject to continuous development, therefore they may be subject to change. Please refer to the latest version of the documentation available for download at **www.thomann.de**.

Symbols and Signal Words

In this section, you will find an overview of the meaning of symbols and signal words used in this document:

Signal Word	Meaning
DANGER!	This combination of symbol and signal word indicates an immediate dangerous situation that will result in death or serious injury if not avoided.
NOTICE!	This combination of symbol and signal word indicates a possible dangerous situation that can result in material and environmental damage if not avoided.

	Warning – high-voltage.
	Warning – danger zone.

Safety Instructions

Intended Use

This device is intended for merging multiple DMX signals, distributing one DMX signal to multiple DMX chains, and extending a DMX chain. Use the device only as described in this user manual. Any other use or use under different operating conditions is considered improper and may result in personal injury or property damage. We do not assume liability for damages resulting from improper use. This device should only be used by individuals with sufficient physical, sensorial, and intellectual abilities, as well as corresponding knowledge and experience. Other individuals may use this device only under supervision or instruction from someone responsible for their safety.

Safety

DANGER! Risk of injury and choking hazard for children!

Children can suffocate on packaging material and small parts. Children can injure themselves when handling the device. Never allow children to play with the packaging material and the device. Always store packaging material out of the reach of babies and small children. Always dispose of packaging material properly when it is not in use. Never allow children to use the device without supervision. Keep small parts away from children and make sure that the device does not shed any small parts (such knobs) that children
could play with.

DANGER! Danger to life due to electric current!

Within the device, there are areas where high voltages may be present. Never remove any covers. There are no user-serviceable parts inside. Do not use the device when covers, safety equipment, or optical components are missing or damaged.

NOTICE!

Risk of fire due to covered vents and neighbouring heat sources!

If the vents of the device are covered or the device is operated in the immediate vicinity of other heat sources, the device can over-heat and burst into flames. Never cover the device or the vents. Do not install the device in the

immediate vicinity of other heat sources. Never operate the device in the immediate vicinity of naked flames.

- Damage to the device if operated in unsuitable ambient conditions!
  The device can be damaged if it is operated in unsuitable ambient conditions. Only operate the device indoors within the ambient conditions specified in the "Technical specifications" chapter of this user manual. Avoid operating it in environments with direct sun-light, heavy dirt and strong vibrations. Avoid operating it in environments with strong temperature fluctuations. If temperature fluc-tuations cannot be avoided (for example after transport in low outside temperatures), do not switch on the device immediately. Never subject the device to liquids or moisture. Never move the device to another location while it is in operation. In environments with increased dirt levels (for example due to dust, smoke, nicotine or mist): Have the device cleaned by qualified specialists at regular intervals to prevent damage due to overheating and other malfunctions.
- Damage to the external power supply due to high voltages!
  The device is powered by an external power supply. The external power supply can be damaged if it is operated with the incorrect voltage or if high voltage peaks occur. In the worst case, excess voltages can also cause a risk of injury and fires. Make sure that the voltage specification on the external power supply matches the local power grid before plugging in the power supply. Only operate the external power supply from professionally installed mains sockets that are protected by a residual current circuit breaker (FI). As a precaution, disconnect the power supply from the power grid when storms are approaching or it the device will not be used for a longer period.

Features

- Can merge multiple DMX signals
- Distributes one DMX signal to multiple DMX chains
- Can extend a DMX chain
- Compatible with DMX Manager software
- 19″ rack-mountable

DMX manager with the following features:

- Four operating modes: HTP, Backup, Merge and LTP
- 2 × 3-pin DMX input on the front panel, 2 × 3-pin DMX input on the rear panel (not usable in parallel)
- 1 × 3-pin DMX output on the front panel, 1 × 3-pin DMX output on the rear panel (not usable in parallel)
- 19″ rack-mountable

Installation and Starting Up

Before using the unit, unpack it and carefully check for any transportation damage. Keep the equipment packaging for future use. To fully protect the product against vibration, dust, and moisture during transportation or storage, use the original packaging or your own packaging material suitable for transport or storage. Unpack and check carefully there is no transportation damage before using the unit. Keep the equipment packaging. To fully protect the product against vibration, dust and moisture during transportation or storage use the original packaging or your own packaging material suitable for transport or storage, respectively. Create all connections while the device is off. Use the shortest possible high-quality cables for all connections. Take care when running the cables to prevent tripping hazards.
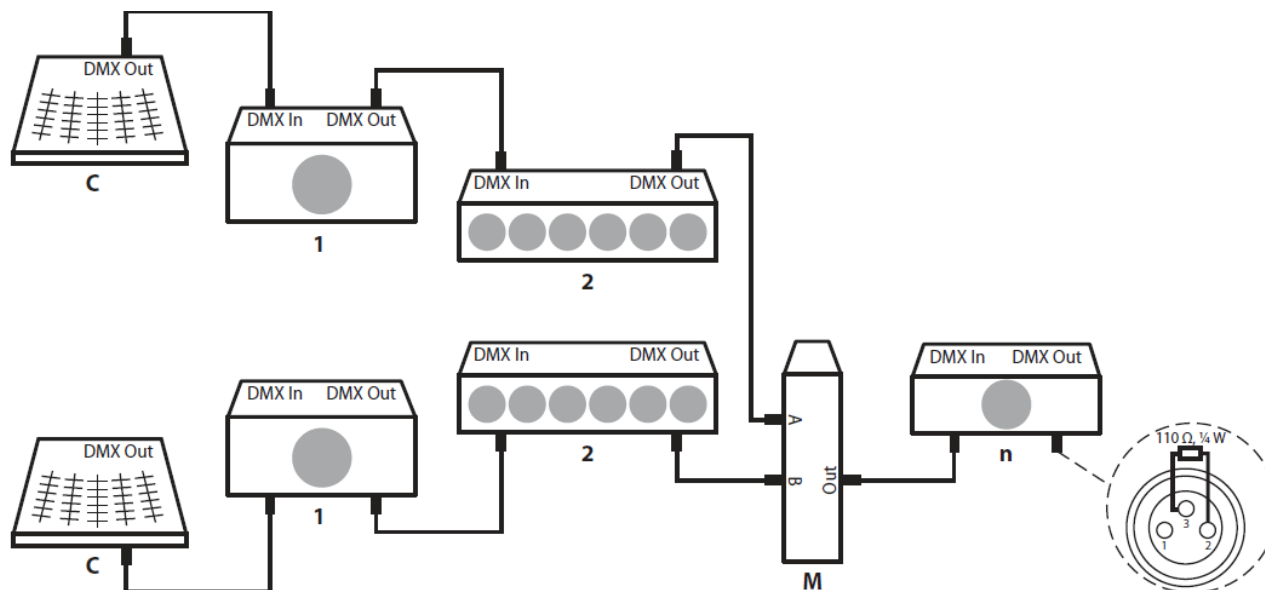
NOTICE!
Data transfer errors due to improper wiring!
If the DMX connections are wired incorrectly, this can cause errors during the data transfer. Do not connect the DMX input and output to audio devices, e.g. mixers or ampli-fiers. Use special DMX cables for the wiring instead of normal microphone cables.

Connections in 'DMX' mode
Connect the output of the first DMX device to the input of the second one and so on, to form a series connection. Connect the output of this DMX chain to input A on the front or back of the DMX Manager. Connect the output of a second DMX chain to input B on the front or back of the DMX Manager. Connect the output on the front or rear of the DMX Manager to the DMX input of a DMX controller or other DMX device. Make sure that the output of the last DMX device in the chain is terminated by a resistor (110 Ω, ¼ W). Note that the ports on the front and back can not be used in parallel.
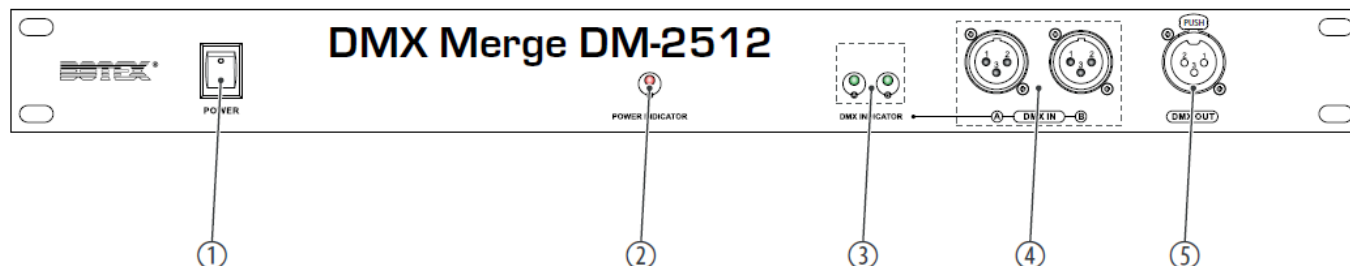

DMX indicator
When the device and the DMX controller are operational, the DMX indicator in the display shows that a DMX signal is being received on the input.

Rack mounting
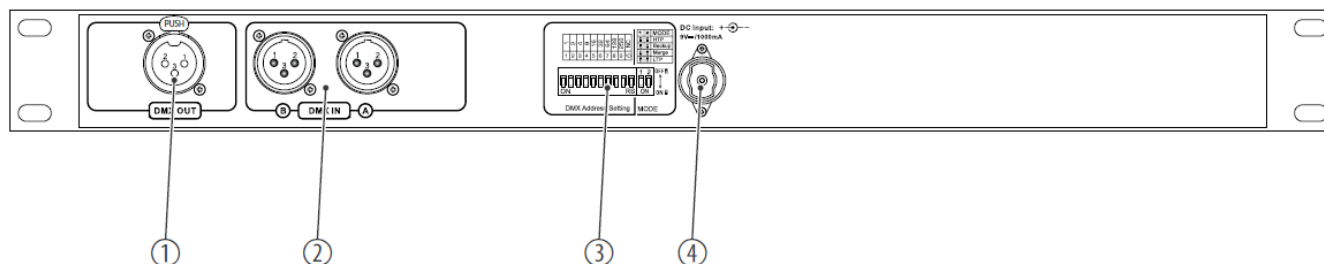The device is designed for mounting in a standard 19-inch rack; it occupies one rack unit (RU).

Connections and controls

Front panel

1	[POWER]	Main switch. Turns the device on and off.
2	[POWER INDICATOR]	Indicator LED for operating status. Lights up as soon as the device is turned on.
3	[DMX INDICATOR] [A], [B]	2 × Indicator LED for DMX input. The indicator LED of the respective channel lights up green as soon as a signal is present.
4	[DMX IN]	2 × DMX input, designed as XLR socket
5	[DMX OUT]	1 × DMX output, designed as XLR socket

Rear panel

1	[DMX OUT]	1 × DMX output, designed as XLR socket
2	[DMX IN]	2 × DMX input, designed as XLR socket
3	DIP switches for setting the operating modes and DMX addresses
4	Connection for the power supply

Operating

Setting the operating modes
The device offers four different operating modes for combining several DMX signals: HTP, Backup, Merge and LTP.

Operating mode HTP (High Take Precedence Modus)
In HTP mode, the highest DMX value has priority.
Set DIP switches 1 and 2 to [ON].
HTP mode is activated. If two DMX signals are present at the inputs of the device, then the signal with the higher value overwrites the other signal.

BACKUP mode
In BACKUP mode, the signal of the other input is accepted if no DMX signal is present at one input.
Set DIP switch 1 to [OFF] and DIP switch 2 to [ON].
BACKUP mode is activated. If a DMX signal is present at input A, it is output at the device output. If no DMX signal is present at input A, then the signal from input B is output at the device output.

MERGE mode
In MERGE mode, DMX signals A and B are combined to form a new signal.

1. Set DIP switch 1 to [ON] and DIP switch 2 to [OFF].

   MERGE mode is activated.

2. Use DIP switches 1 … 9 to set the DMX start address for the new merged signal.

Example: You want to merge the first 6 channels of DMX signal A and all subsequent channels of DMX signal B.

1. Set DIP switches 1, 2 and 3 to [OFF].
2. Set DIP switches 4 … 10 to [ON].
   The first 6 channels of the DMX output signal are occupied by the 6 channels of DMX signal A. Channels 7 …
   512 of the DMX output signal are occupied by the channels of DMX signal B.

LTP mode (Latest Takes Precedence)
In LTP mode, the most recent DMX value has priority.
Set DIP switches 1 and 2 to [OFF].
LTP mode is activated. If two DMX signals are present at the inputs of the device, then the two most recently changed values are applied.

Setting the DMX address
DMX address table

DMX B Start channel number	DIP switch ON
1	1
2	2
3	1, 2
4	3
5	1, 3
6	2, 3
7	1, 2, 3
8	4
9	1, 4
10	2, 4
11	1, 2, 4
12	3, 4
13	1, 3, 4

14	2, 3, 4
15	1, 2, 3, 4
16	5
…	…
511	1, 2, 3, 4, 5, 6, 7, 8, 9

Technical specifications

Operating modes	HTP, Backup, Merge, LTP	
Control	DIP switches	
Input connections	DMX signal input, front of the device	2 × XLR panel socket, 3-pin
	DMX signal input, back of the device	2 × XLR panel socket, 3-pin
Output connections	DMX signal output, front of the device	1 × XLR panel socket, 3-pin
	DMX signal output, back of the device	1 × XLR panel socket, 3-pin
Power supply	Power adapter	
Operating voltage	9 V ⎓ / 1,000 mA, centre positive	
Installation properties	19 inches, 1 RU	
Dimensions (W × H × D)	482 mm × 44 mm × 162 mm	
Weight	2.0 kg	
Ambient conditions	Temperature range	0 °C…40 °C
	Relative humidity	50% (non-condensing)

Further information

Type	Merger
Type of distribution	2in1
RDM compatible	No
WDMX capable	No

Plug and connection assignments

Introduction
This chapter will help you select the right cables and plugs to connect your valuable equipment so that a perfect light experience is guaranteed. Please take our tips, because especially in 'Sound & Light' caution is indicated: Even if a plug fits into a socket, the result of an incorrect connection may be a destroyed DMX controller, a short circuit or 'just' a not working light show!

DMX connections
The unit offers a 3-pin XLR socket for DMX output and a 3-pin XLR plug for DMX input. Please refer to the drawing and table below for the pin assignment of a suitable XLR plug.

Pin	Configuration
1	Ground, shielding
2	Signal inverted (DMX–, 'cold signal')
3	Signal (DMX+, 'hot signal')

Protecting the environment

Disposal of the packing material
Environmentally friendly materials have been chosen for the packaging. These materials can be sent for normal recycling. Ensure that plastic bags, packaging, etc. are disposed of in the proper manner. Do not dispose of these materials with your normal household waste, but make sure that they are collected for recycling. Please follow the instructions and markings on the packaging. Observe the disposal note regarding documentation in France.

Disposal of your old device
This product is subject to the European Waste Electrical and Electronic Equipment Directive (WEEE) as amended. Do not dispose of your old device with your normal household waste; instead, deliver it for controlled disposal by an approved waste disposal firm or through your local waste facility. When disposing of the device, comply with the rules and regulations that apply in your country. If in doubt, consult your local waste management facility. Proper disposal protects the environment as well as the health of your fellow human beings. Also note that waste avoidance is a valuable contribution to environmental protection. Repairing a device or passing it on to another user is an ecologically valuable alternative to disposal. You can return your old device to Thomann GmbH at no charge. Check the current conditions on **www.thomann.de**. If your old device contains personal data, delete those data before disposing of it.

FAQ

1. **Q: Can I use this device with other DMX controllers?**

   A: Yes, the DMX Merge DM-2512 is compatible with other DMX controllers.

2. **Q: Can I connect multiple DMX chains to this device?**

   A: Yes, this device can distribute one DMX signal to multiple DMX chains.

3. **Q: Can I mount this device in a rack?**

   A: Yes, the DMX Merge DM-2512 is 19″ rack-mountable.

Documents / Resources

BOTEX DMX Merge DM-2512 DMX Manager	**BOTEX DMX Merge DM-2512 DMX Manager** [pdf] User Manual 172666, DMX Merge DM-2512 DMX Manager, DMX Merge DM-2512, DMX Manager, Manager

References

- **ⓣ Buy musical instruments online from the market leader – Thomann UK**
- **User Manual**