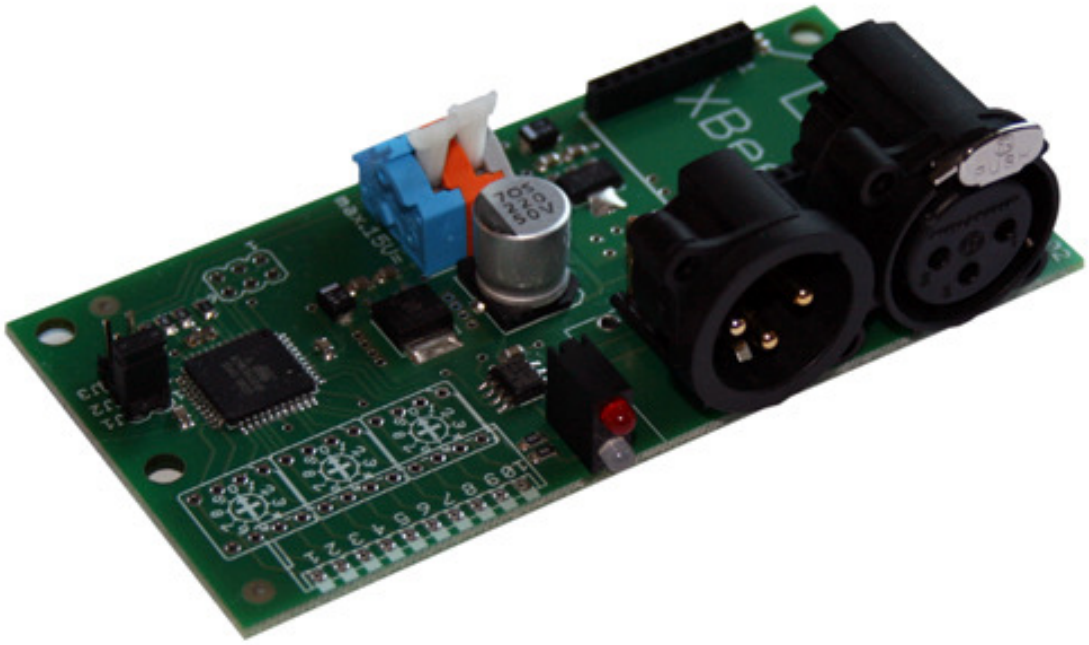
WirelessDMX

RX/TX board

User Manual



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Specifications

The WirelessDMX installation board is designed for operation with XBee-wireless modules. Each WirelessDMX installation board can be configured as a transmitter or receiver unit.

Technical Data

Power supply:	7-15V DC / 500mA
Transferred DMX channel:	512
DMX-Connection:	3-pin XLR
	5-pin XLR as special design possibly
Wireless module:	XB24-AWI-001 / 1mW; 2,4GHz; with antenna
(not included in delivery)	XB24-ACI-001 / 1mW; 2,4GHz; with chip- antenna
	XB24-AUI-001 / 1mW; 2,4GHz; with UFL connector
Transmission route:	Dependent on the wireless module and local conditions
Board dimensions:	50mm x 100mm

LED-Display

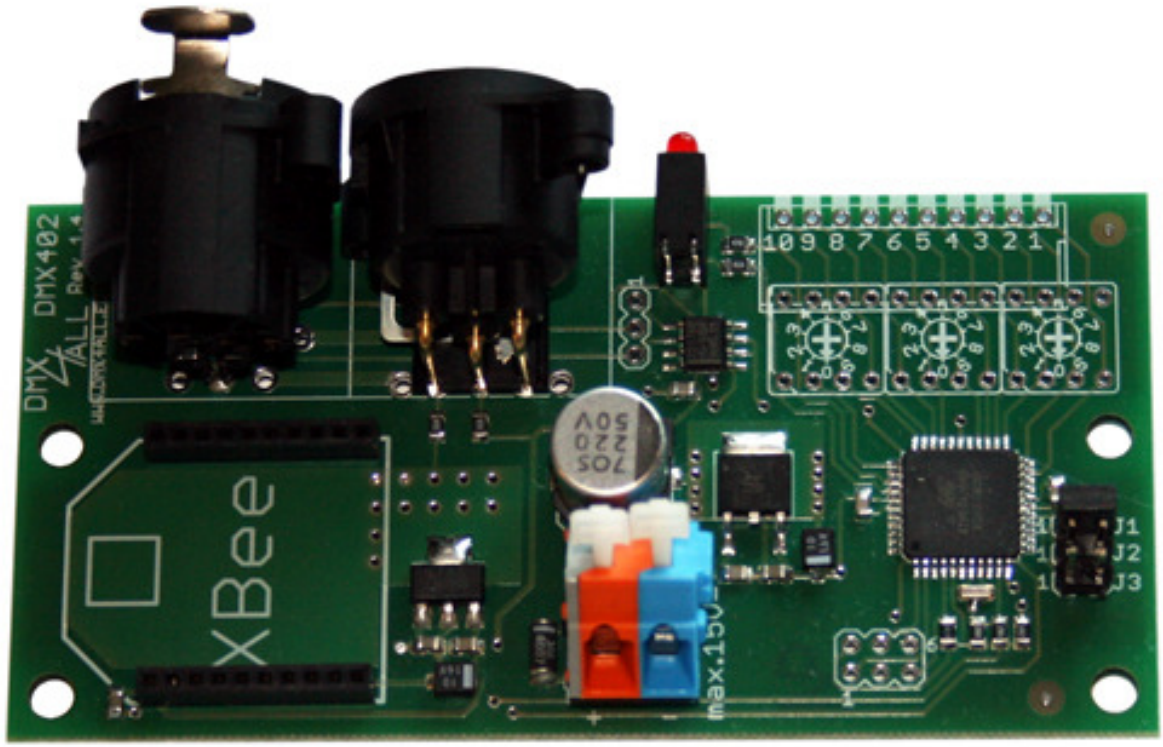
The red and green LED signalises the current status of the WirelessDMX system as follows:

	Red LED	Green LED
Transmitting mode	Data are transferred by HF	**Permanent flashing:** DMX-signal is received **1x flashing:** no DMX-signal at the access **3x flashing:** invalid DMX-signal was identified
Receiving mode	Data are received by HF	**Permanent flashing:** DMX-signal is outputted **1x flashing:** no DMX-output due to the missing HF-signal **2x flashing:** invalid DMX-channel setting

Connection of the Interfaces

DMX OUT
1 – GND
2 – DATA-
3 – DATA+

DMX IN
1 – GND
2 – DATA-
3 – DATA+



Wireless module
Attention: Please observe the installation direction and obey the instruction steps absolutely

Power supply
Orange – 9-15V
Blue – GND

Jumper J1-J3
J1 - open: Transmitting mode
closed: Reception mode
J2 - reserved
J3 - open: Normal mode
closed: Wireless module configuration

Start-up

One-of configuration of the wireless module

For each wireless module a configuration is necessary. You must it carry out one-of. Please follow in addition the single steps:

- Put the wireless module on the board. Pay attention to the installation direction, absolutely!
- Close Jumper J3
- Now, connect the power supply
- Please wait till the wireless module-configuration is finished. This will be signalled by flashing of the green LED
- Turn off the power supply

Now the one-of configuration is completed. This must be repeated only if a new wireless module is used which is not yet configured for the WirelessDMX.

During the configuration there must be no transmit module being in operation !

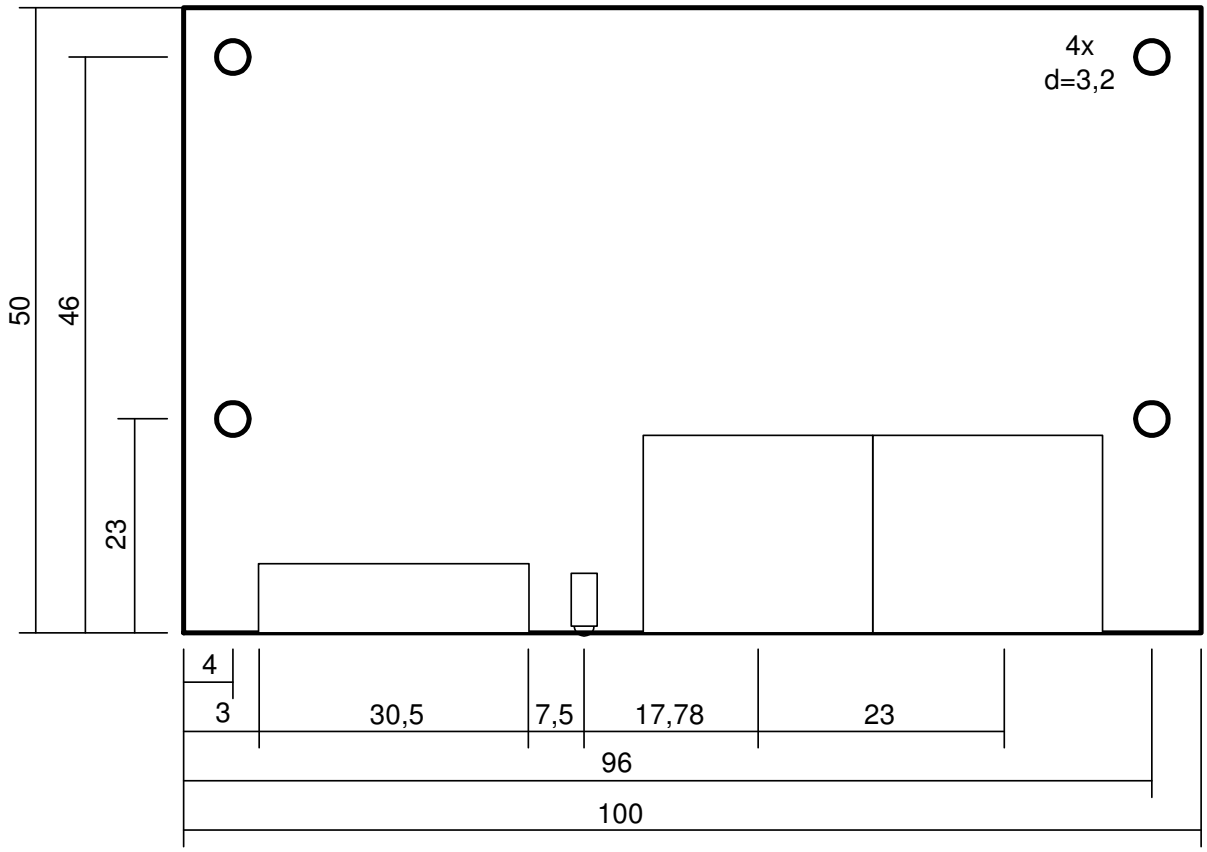
Configuration for transmit or receive mode

The WirelessDMX-installation board can be used as transmit or receive unity. You can configure it about the Jumper J1 as follows:

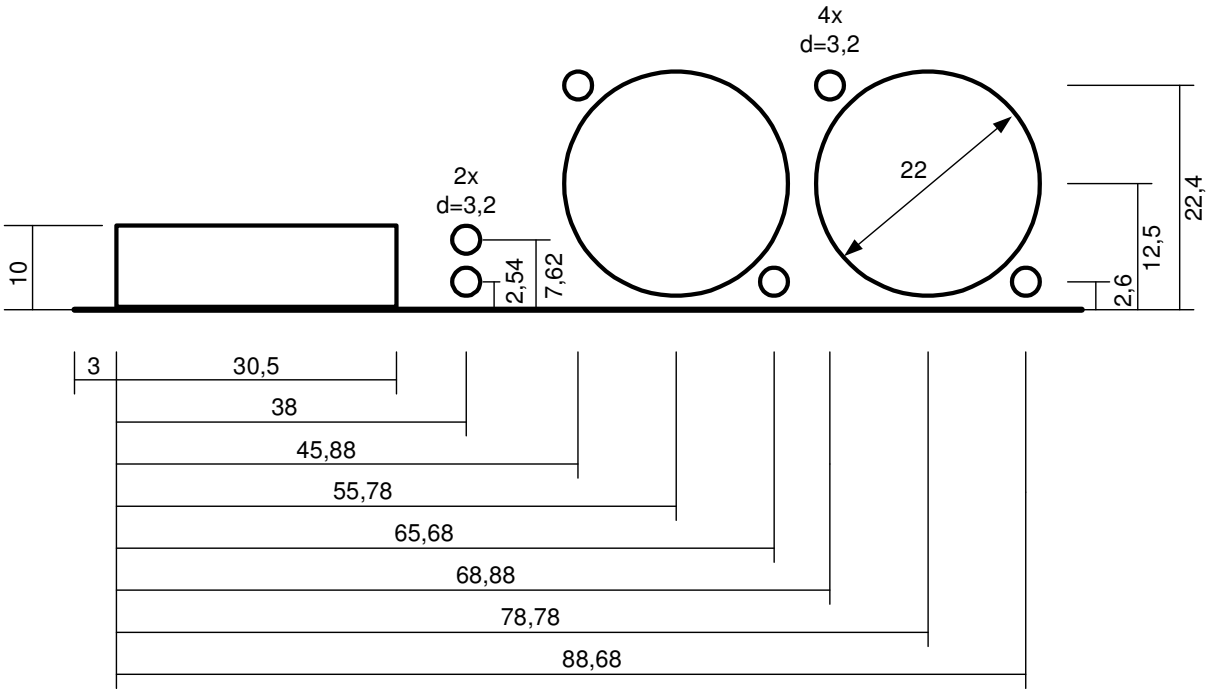
J1 open:	transmit mode
J1 closed:	receive mode

Dimensions

Board mounting



Front-panel-cut



(all dimensions in mm)

Accessoires

Wireless module XB24-AWI-001
2,4GHz; 1mW
with antenna

Wireless module XB24-AUI-001
2,4GHz; 1mW
with UFL connector

Wireless module XBP24-AUI-001J
2,4GHz; 10mW
with UFL connector

CE-conformity

This assembly (board) is controlled by a microprocessor and uses high frequency (8MHz). To get the characteristics of the assembly in relation to the CE-conformity, an installation in a compact metal casing is necessary.

Risk-Notes

You purchased a technical product. Conformable to the best available technology the following risks should not excluded:

Failure risk: The device can drop out partially or completely at any time without warning. To reduce the probability of a failure a redundant system structure is necessary.

Initiation risk: For the installation of the board, the board must be connected and adjusted to foreign components according to the device paperwork. This work can only be done by qualified personnel, which read the full device paperwork and understand it.

Operating risk: The Change or the operation under special conditions of the installed systems/components could as well as hidden defects cause to breakdown within the running time.

Misusage risk: Any nonstandard use could cause incalculable risks and is not allowed.

Warning: It is not allowed to use the device in an operation, where the safety of persons depend on this device.

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