# MaNima LED interface



### **DATASHEET**



### MaNima DSA-14U

- Possibility of cascade switching for the controllers
- Configure with MaNima configurator (user interface)
- Polarity protection on the power supply, overvoltage protection up to 100 VDC
- Configurable in fixed installation by means of ethernet and unique serial number
- Firmware update possible via ethernet

#### Live mode

The MaNima LED interface can send live data with ArtNet to digital LED strips or one or both DMX ports.

#### Art-Net

The MaNima LED interface can be controlled via ArtNet V1.4. The interface is easy to find and use thanks to the configurable ArtPoll system.

#### **External inputs**

Scenes can be started via external inputs. These are digital inputs or analogue inputs; 4-20mA or 0-10V.

#### Design

The robust design of the MaNima interface delivers a reliable product for industrial applications.

#### Standalone mode

In Stand-Alone mode, the MaNima LED interface plays a recorded scene from the SD card. The scene can be recorded through Art-Net according to the WYSIWYG principle.

#### Synchronization

Multiple MaNima LED interfaces synchronize when playing scenes through a master and slave setup.

#### Controlling scenes

The recorded scenes can be started by external inputs or DMX channels configured as a DMX port input.

#### Easy-to-use GUI

The settings of the MaNima LED interface can easily be changed by a user via the MaNima LED interface configurator.

### Multiple protocols at once

Due to the available multiple ports, there is also the possibility of sending different protocols over different ports.





# **Technical Specifications**

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Weight	360 Gr
weight	300 01
Dimensions	90 x 159 x 58 mm
Mounting	Din rail
IP class	IP10
Wiring	Max. 2.5mm2   14 AWG
Connectors	Power: 12-48 VDC terminal connector, Art-Net terminal connector:RJ45 bus, IO port 5-input/ Output terminal connector, analogue 6-pin terminal connector, +1- volt terminal connector.
Input voltage	12-48V DC 200mA max
Max. Power consumption	9.6W
Channels	10.240 Art-Net and/or up to 1024 DMX channels
Ethernet	RJ45 compatible, for 10/100 Base-TX Ethernet with Static IP address or DHCP
Input	DMX512 (2 Inputs)  Art-Net   MaNima Configurator   5 Digital Inputs   6 Analogue Inputs
Output	47+ SPI protocols (supported IC's list)   DMX512 (2 outputs)   SPI (6 outputs)   Art-Net
Directives	CE, RoHs
Operating temperature	10°C ~ 60°C
Storage temperature	10°C ~ 60°C
Warranty	5 Years
GUI	MaNima Configurator





## **SPI Protocols**

APA102, APA102\_8bit, APA104, APA106

BS0901

**CX808** 

**DM412** 

GW6205\_400kHz, GW6205\_800kHz, GS8208

**INK1003** 

LD1510, LPD6803

MBI6024, MB16120, MY9221, MY9231, MY9291

PC5XS301V0500

SK6812, SK6812RGBW, SK6822, SK8922

SM16703, SM16716, SM16726

TM1803, TM1804\_400kHz, TM1804\_800kHz, TM1809, TM1812, TM1814, TM1914A

UCS1903\_400kHz, UCS1903\_800kHz, UCS1904, UCS2903, UCS2904, UCS2912, UCS512B3, UCS5603A, UCS8904, UCS9812

WES9412, WES943

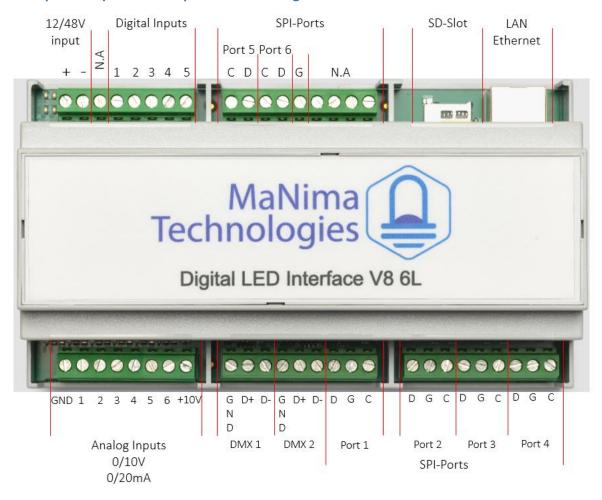
WS2803, WS2811\_400kHz, WS2811\_800kHz, WS2812, WS2812B, WS2812S, WS2813, WS2818





## **Connection Diagram**

Descriptions of ports from top left to bottom right:



**12/48V Input:** Connect 12/48 Volts to this connector. DO NOT make short circuit while doing this, since it will seriously damage the MaNima LED Interface.

**Digital Inputs:** Digital Inputs are inputs used to control the MaNima LED Interface with voltages between +3,3V and +12V. Inputs can be configured using the 'Inputs' tab.

**SPI-ports (1-6):** These ports are used as outputs for the Data (D) Ground (G) and the Clock (C). Every port has a D,G and a C output. These ports make sure the LED's will receive the Digital Signal.

**SD-Slot:** An SD card can be placed inside this slot. All scenes are recorded and saved here.

**LAN/Ethernet:** To connect to a network, a LAN or Ethernet cable must be connected to the MaNima LED Interface, using this port.

**Analog Inputs:** These inputs are used as Analog Channels. The +10V is used for these connections (It can also be used for the Digital inputs).

**DMX 1-2:** These ports are used for LED's that need DMX signals instead of SPI-protocols.





# Models

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/ Functions	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	_ ~	_	_	\ \ \	\ \ \ \ \	\ \ \	<b>~</b>
Record/Play 8 Universes	1	1	1	1	1	<b>✓</b>	<b>✓</b>	1
Record/Play 14 Universes	×	✓	✓	✓	✓	✓	✓	✓
Record/Play 20 Universes	×	×	✓	✓	1	✓	✓	✓
Record/Play 26 Universes	×	×	×	✓	✓	✓	✓	✓
Live playing	✓	✓	✓	1	✓	✓	✓	✓
Stand-alone playing	×	×	×	×	✓	✓	✓	✓
Scanner	✓	✓	✓	✓	✓	✓	✓	✓
Network	✓	✓	✓	✓	✓	✓	✓	✓
Mapping	✓	✓	✓	✓	✓	✓	✓	✓
DMX	✓	✓	✓	✓	✓	✓	✓	✓
Scenes	✓	✓	✓	✓	✓	✓	✓	✓
Digital Inputs	×	×	×	×	✓	✓	✓	✓
Analog Inputs	×	×	×	×	✓	✓	✓	✓
Digital outputs	✓	✓	✓	✓	✓	✓	✓	✓
Analog outputs	✓	✓	✓	✓	✓	✓	✓	✓
ART-NET	✓	✓	✓	✓	✓	✓	✓	✓
Updating through ethernet	✓	✓	✓	✓	✓	✓	✓	✓
SD-Card	×	×	×	×	✓	✓	✓	✓





## GUI

