

# MaNima Interface

## DATASHEET



### MaNima Magnus 14 Digital LED Interface

- Master-slave function.
- Up to 7168 SPI channels
- Up to 1024 DMX channels.
- Analog and digital triggers
- Additional features

#### Recording and Playing

The MaNima Magnus is able to record and play up to 26 universes according to the WYSIWYG principle.

#### Reliable and Stable

The MaNima Magnus has been proven to be a reliable and stable product when used for high-end LED projects

#### EMC Proof Product

All of MaNima's products are EMC proof and are an ideal choice for use near EMC vulnerable systems.

#### Art-Net

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

#### Stackable

Connect dozens of MaNima Interfaces together to create huge LED projects with the least amount of parts.

#### Easy-to-use GUI

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

#### External Inputs

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

#### Synchronization

Multiple MaNima Interfaces can synchronize when playing scenes through a master- slave setup.

#### Multiple Protocols at once

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



## Technical Specifications

Weight	<i>360 Gr</i>
Dimensions	<i>90 x 159 x 58 mm</i>
Mounting	<i>Din rail</i>
IP class	<i>IP10</i>
Wiring	<i>Max. 2.5mm<sup>2</sup>   14 AWG</i>
Connectors	<i>Power: 12-48 VDC terminal connector, Art-Net terminal connector:RJ45 bus, IO port 5-pin input/ output terminal connector, analogue 6-pin terminal connector, +10 volt terminal connector.</i>
Input voltage	<i>12-48V DC 200mA max</i>
Max. power consumption	<i>9.6W</i>
Channels	<i>10.240 Art-Net and/or up to 1024 DMX channels</i>
Ethernet	<i>RJ45 compatible, for 10/100 Base-TX Ethernet with Static IP address or DHCP</i>
Input	<i>DMX512 (2 inputs)   Art-Net   MaNima Configurator   5 digital inputs   6 analogue inputs   UDP commands</i>
Output	<i>50+ SPI protocols (supported IC's list)   DMX512 (2 outputs)   SPI (6 outputs)   Art-Net</i>
Directives	<i>CE, RoHs</i>
Operating temperature	<i>10°C ~ 60°C</i>
Storage temperature	<i>10°C ~ 60°C</i>
Warranty	<i>5 Years</i>
Gui	<i>MaNima Configurator</i>



## Supported ICs

APA102, APA102\_8bit, APA104, APA106, HD107S

BS0901

CX808, CS8812

DM412, DMX

GW6205\_400kHz, GW6205\_800kHz, GS8208

INK1003

LD1510, LPD6803

MBI6024, MB16120, MY9221, MY9231, MY9291

PC5XS301V0500

SK6812, SK6812RGBW, SK6822, SK8922

SM16703, SM16716, SM16726, SM16904

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

UCS1903\_400kHz, UCS1903\_800kHz, UCS1904, UCS2903, UCS2904, UCS2912, UCS512B3, UCS5603A, UCS8904, UCS9812, UCS8903

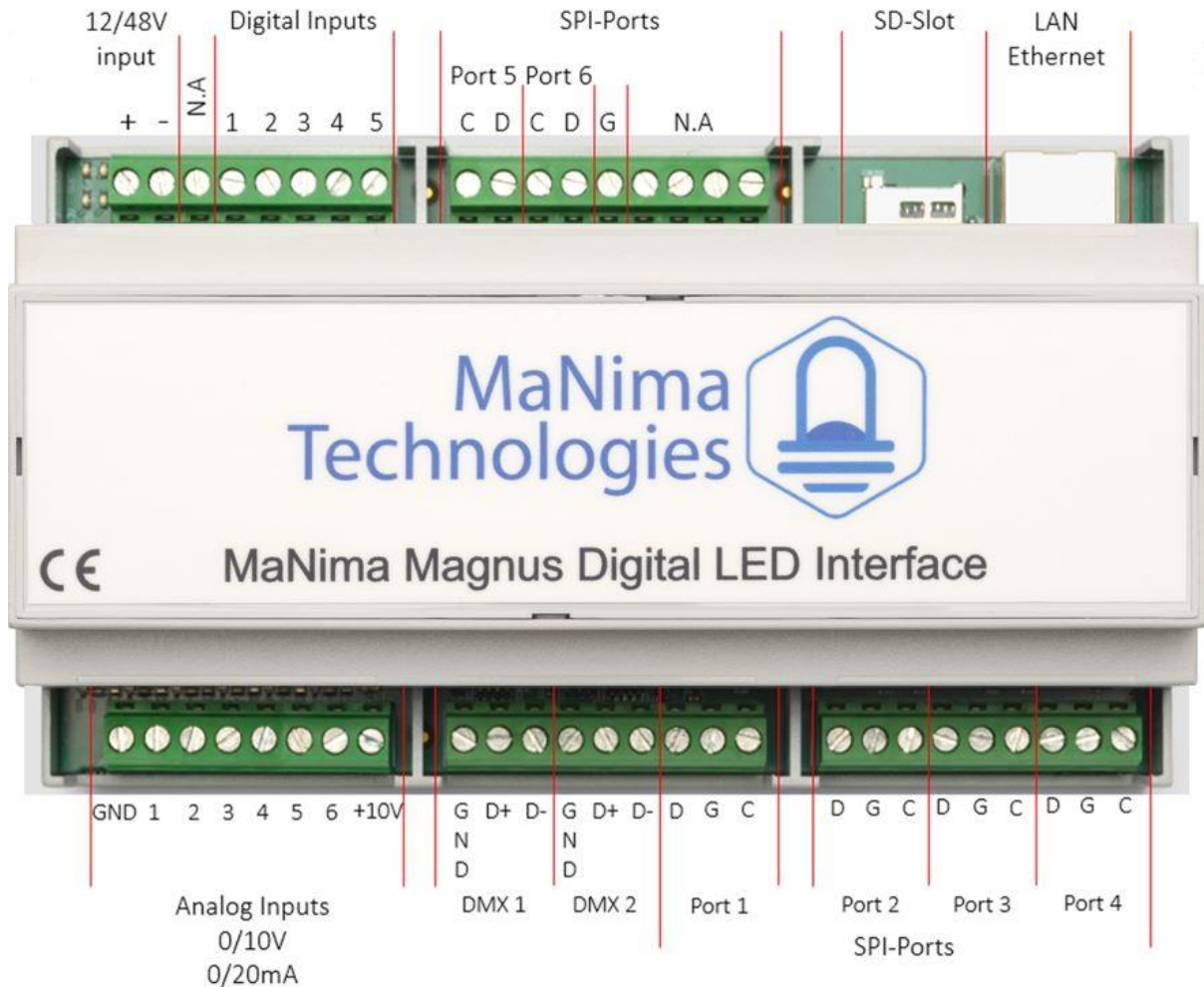
WES9412, WES943

WS2801, WS2803, WS2811\_400kHz, WS2811\_800kHz, WS2812, WS2812B, WS2812S, WS2813, WS2815, 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.

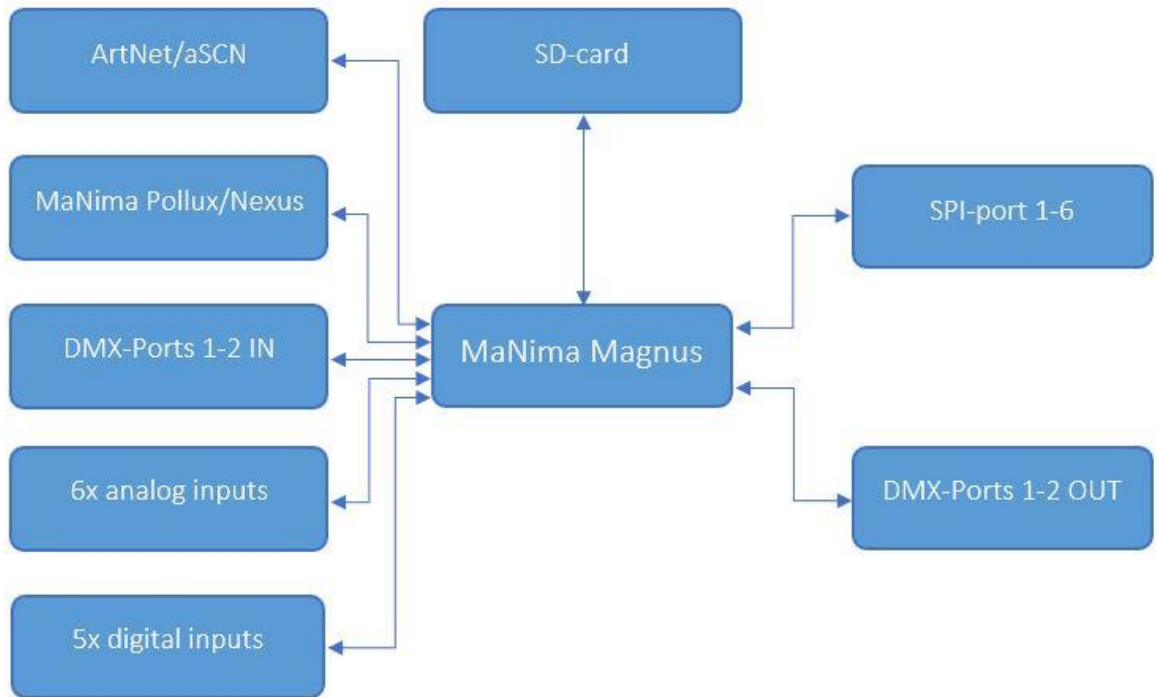
**Analog inputs:** These inputs are used as analog channels. The +10V is used for these connections (it can also be used for the digital inputs).

**DMX 1-2:** These ports are used for devices that need DMX signals.

# Overview

## MaNima Magnus

### Overview



## MaNima Network Overview

### MaNima Ignis

#### Industrial Interface

Total system integration for industrial systems

INP and custom API

### MaNima Magnus

#### Digital LED Interface

For high quality digital LED applications

Standalone up to 26 SPI and 2 DMX universes

### MaNima Pollux

#### Monitoring and PWM

14 sensor inputs (8 analogue, 6 digital)

8 PWM outputs

### MaNima Nexus

#### Connectivity module

Connect the installation to wireless network

**MaNima Magnus:** The MaNima Magnus Architectural LED Interface is a professional LED controller with an industrial design made for operating digital LED installations. The interface is also able to control multiple protocols at once.

**MaNima Ignis:** The MaNima Ignis Industrial Interface is a LED interface designed for the industrial market. The MaNima Ignis is a stable and reliable platform that is used in the Industry for operating LEDs. The MaNima Ignis can communicate with existing systems.

**MaNima Nexus:** The MaNima Nexus is a module used for connecting advanced and complex systems to a network of MaNima products.

**MaNima Pollux:** The MaNima Pollux is an industrial PWM driver and LED monitoring module made for the professional market. The MaNima Pollux is a versatile device which can fulfil many different tasks. The MaNima Pollux has been designed to be reliable, stable and fail-safe.



## Contact Info

### MaNima Technologies B.V.

#### Address:

Hastelweg 260-B  
5652 CN, Eindhoven  
Netherlands

#### Contact:

E: [info@manima-technologies.com](mailto:info@manima-technologies.com)  
W: [www.manima-technologies.com](http://www.manima-technologies.com)  
T: 040 202 49 04

Dutch chamber of Commerce registration number/KvK-nummer: 71614605

#### YouTube

Link: [MaNima Technologies - YouTube](#)

