MaNima Interface

DATASHEET V1.1

MaNima Ignis Industrial LED Interface

- Up to 13312 SPI channels
- Up to 1024 DMX channels
- INP, UDP commands and Custom APIs
- Engineered for Industrial applications
- Digital and Analog contacts
- Configurable with MaNima Configurator

Industrial Applications

The MaNima Ignis is designed with industrial applications in mind. And that is why it is stable and reliable.

Custom API

A custom API makes it possible to let all systems communicate with the MaNima Ignis.

System Integration

The MaNima Ignis can be integrated into existing systems with the use of INP, UDP commands and Custom APIs.

Segments

The MaNima Ignis is able to create segments of LEDs without the use of a lighting software. These segments can then be edited and controlled individually.

UDP commands

UDP commands can be sent to the MaNima Polaris to let it perform certain actions.

Easy-to-use GUI

The settings of the MaNima Ignis can be configured with the MaNima Configurator.

External inputs

Actions can be controlled with external inputs. These are digital inputs or analogue inputs; 4-20mA or 0-10V.

Synchronization

In large and complex installations, it is possible to synchronise all MaNima Interfaces in the network together

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	*360 Gr*
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, Ethernet terminal connector:RJ45 bus, IO port 5-pin input/ Output terminal connector, analogue 6-pin terminal connector, +10 volt terminal connector.*
Input voltage	*12-48V DC 200mA max*
Max. power consumption	*9.6W*
Channels	*13312 SPI channels 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)| MaNima Configurator | 5 Digital Inputs | 6 Analogue Inputs | UDP commands | Custom API | INP |*
Output	*50+ SPI protocols (supported ICs list) | DMX512 (2 outputs) | SPI (6 outputs)*
Directives	*CE, RoHs*
Operating temperature	*10°C ~ 60°C*
Storage temperature	*10°C ~ 60°C*
Warranty	*5 Years*
Gui	*MaNima Configurator*

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
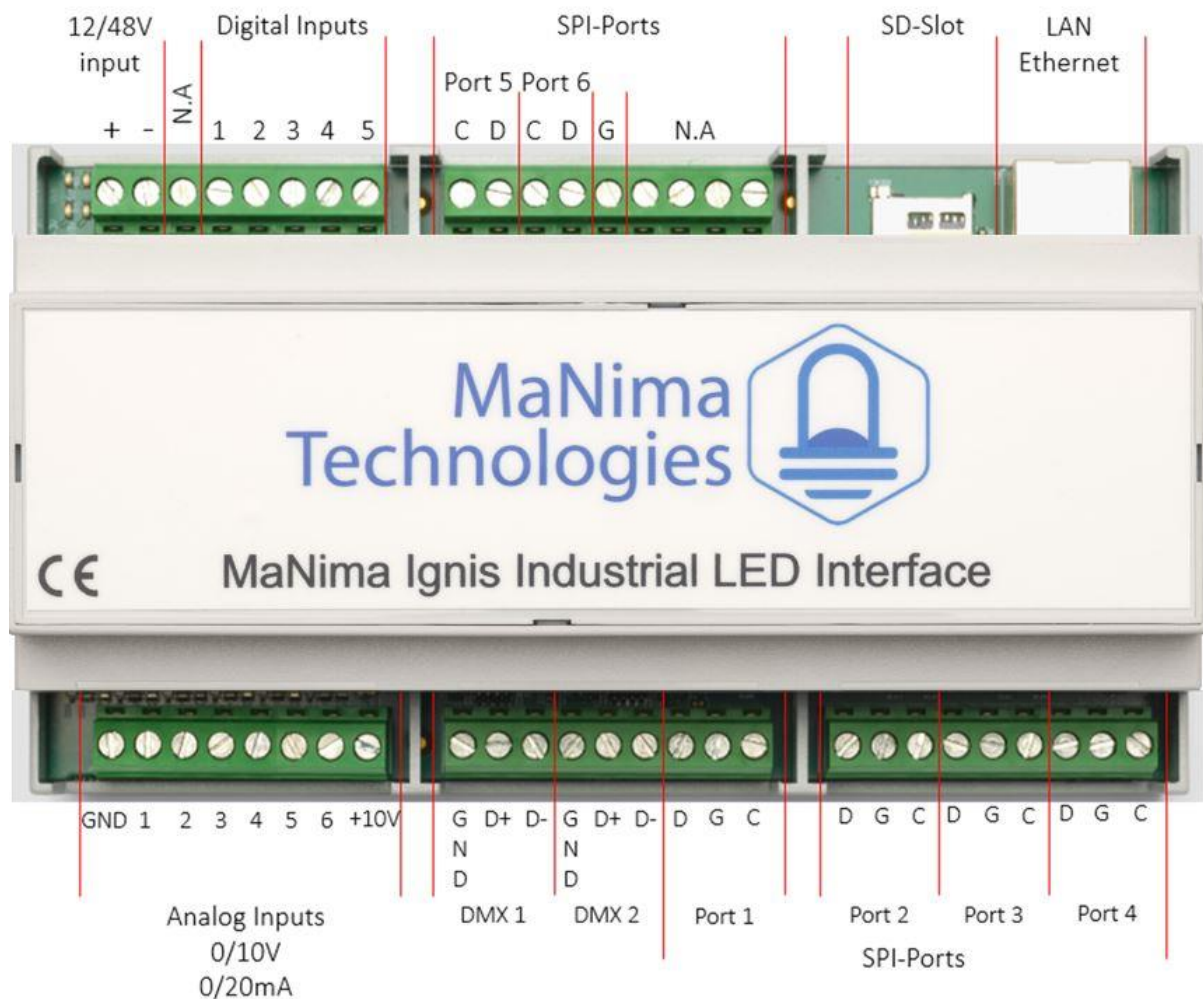
WES9412, WES943

WS2801, WS2803, WS2811_400kHZ, WS2811_800kHz, WS2812, WS2812B, WS2812S, WS2813, WS2815, WS2818

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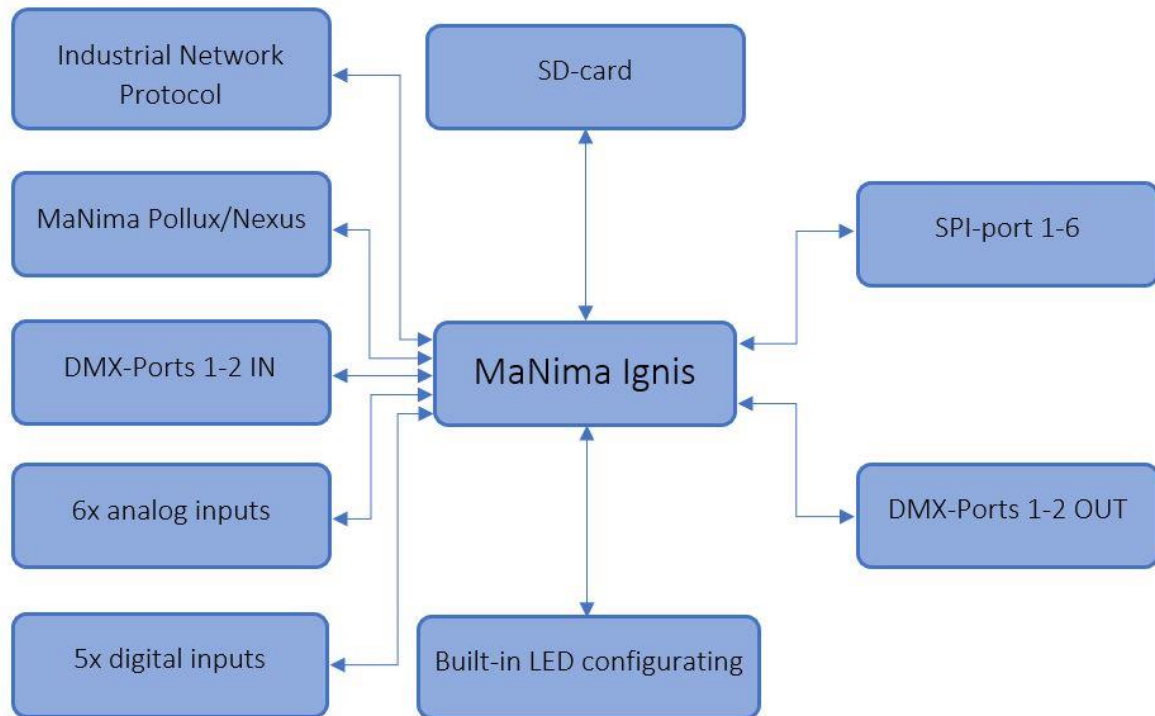
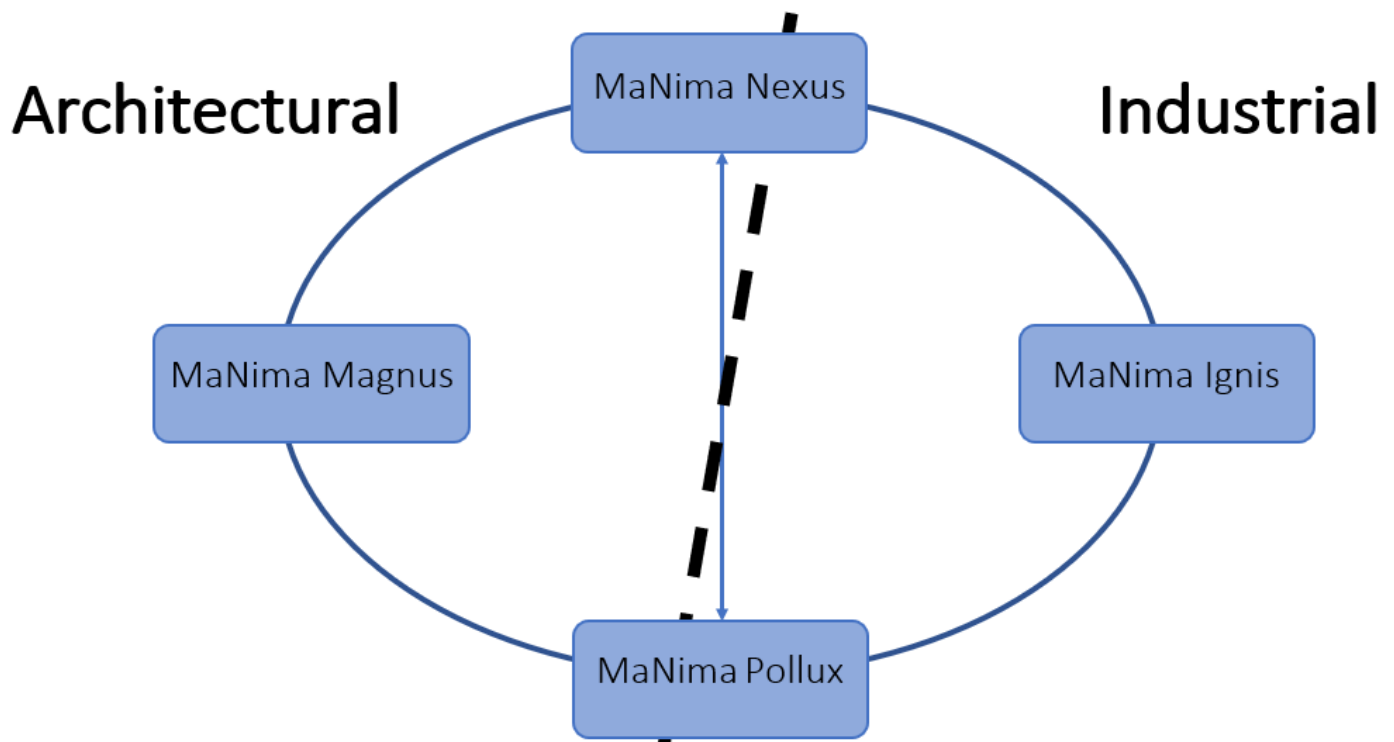**DMX 1-2:** These ports are used for devices that need DMX signals..

MaNima Magnus

Overview

MaNima Network Overview

Architectural ... Industrial

MaNima Nexus

MaNima Magnus

MaNima Ignis

MaNima Pollux

MaNima Magnus Interface: 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 Interface: 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 process industry for operating LEDs. The MaNima Ignis can communicate with existing systems.

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

MaNima Pollux Module: The MaNima Pollux is an Industrial PWM and LED Monitoring Module made for the professional market. The MaNima Pollux must be combined with a MaNima Ignis/Magnus in order to function. The MaNima Pollux is a versatile device which can fulfil many different tasks. The MaNima Pollux had been designed to be reliable, stable and fail-safe.

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