MaNima LED interface

MaNima Technologies

DATASHEET

MaNima DLP-20U

- 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.

Design

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

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.

Easy-to-use GUI

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

Synchronization

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

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, 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*

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

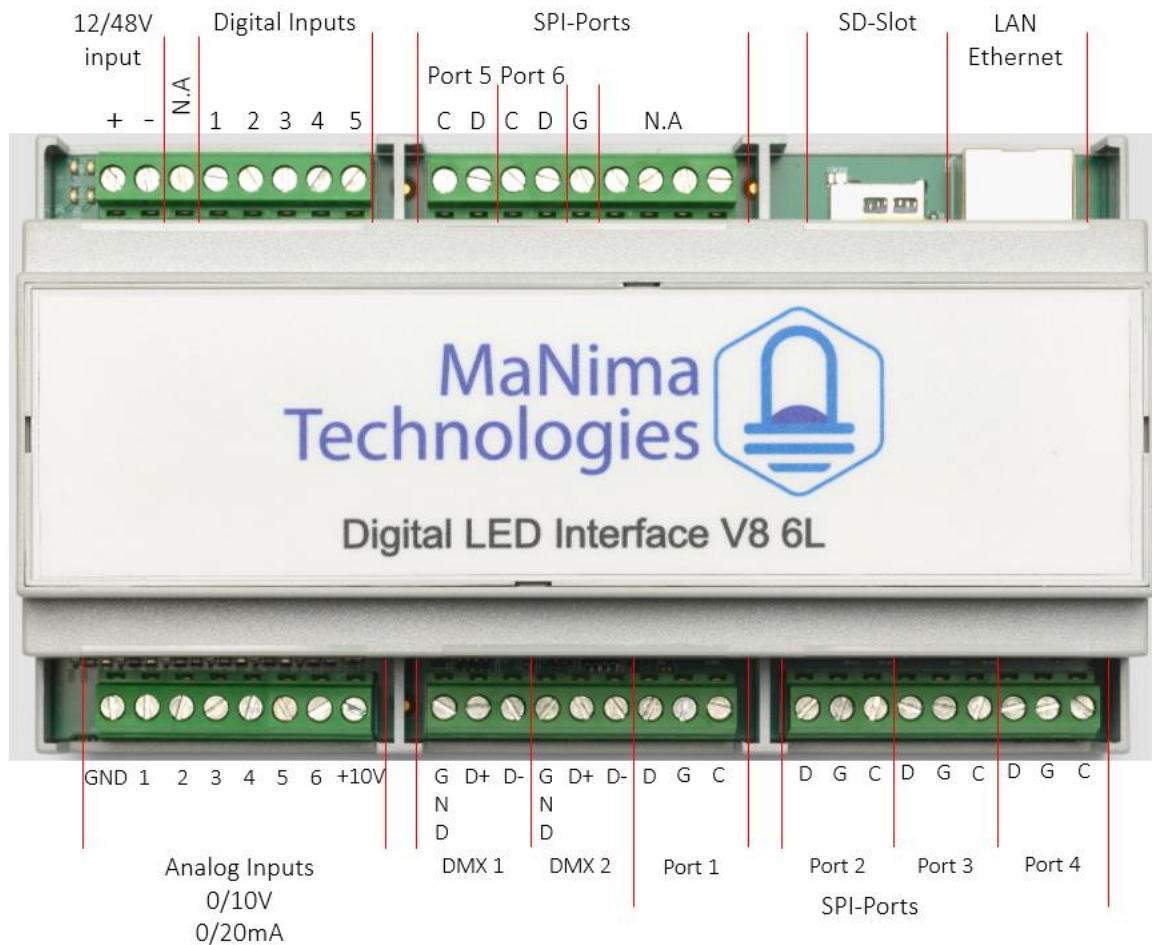**UCS1903_400kHz, UCS1903_800kHz, UCS1904, UCS2903, UCS2904, UCS2912, UCS512B3, UCS5603A, UCS8904, UCS9812**

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

Functions	MaNima DLP-8U	MaNima DLP-14U	MaNima DLP-20U	MaNima DLP-26U	MaNima DSA-8U	MaNima DSA-14U	MaNima DSA-20U	MaNima DSA-26U
Record/Play 8 Universes	✓	✓	✓	✓	✓	✓	✓	✓
Record/Play 14 Universes	✗	✓	✓	✓	✓	✓	✓	✓
Record/Play 20 Universes	✗	✗	✓	✓	✓	✓	✓	✓
Record/Play 26 Universes	✗	✗	✗	✓	✓	✓	✓	✓
Live playing	✓	✓	✓	✓	✓	✓	✓	✓
Stand-alone playing	✗	✗	✗	✗	✓	✓	✓	✓
Scanner	✓	✓	✓	✓	✓	✓	✓	✓
Network	✓	✓	✓	✓	✓	✓	✓	✓
Mapping	✓	✓	✓	✓	✓	✓	✓	✓
DMX	✓	✓	✓	✓	✓	✓	✓	✓
Scenes	✓	✓	✓	✓	✓	✓	✓	✓
Digital Inputs	✗	✗	✗	✗	✓	✓	✓	✓
Analog Inputs	✗	✗	✗	✗	✓	✓	✓	✓
Digital outputs	✓	✓	✓	✓	✓	✓	✓	✓
Analog outputs	✓	✓	✓	✓	✓	✓	✓	✓
ART-NET	✓	✓	✓	✓	✓	✓	✓	✓
Updating through ethernet	✓	✓	✓	✓	✓	✓	✓	✓
SD-Card	✗	✗	✗	✗	✓	✓	✓	✓

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