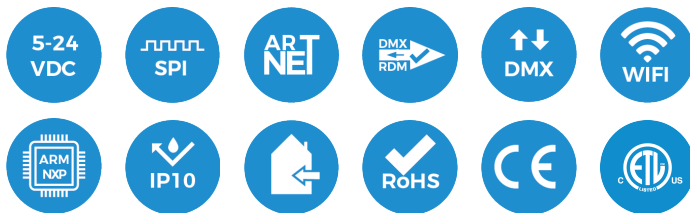


DiGidot C4 Extended

Pixel Controller

Art. No. 20201 - DiGidot C4 Extended 1
Art. No. 20202 - DiGidot C4 Extended 2
Art. No. 20203 - DiGidot C4 Extended 4
Art. No. 20204 - DiGidot C4 Extended 8



DATA SHEET

- Up to 8 universes (4096 channels)
- Supports more than 50 protocols
- Art-Net + DMX in & out
- Art-Net/DMX recording & playback
- Analog + digital triggers
- Compact size
- Wide voltage range (5-24 Vdc)
- Easy to connect
- Web interface & free App
- Reliable & easy to use

Introduction

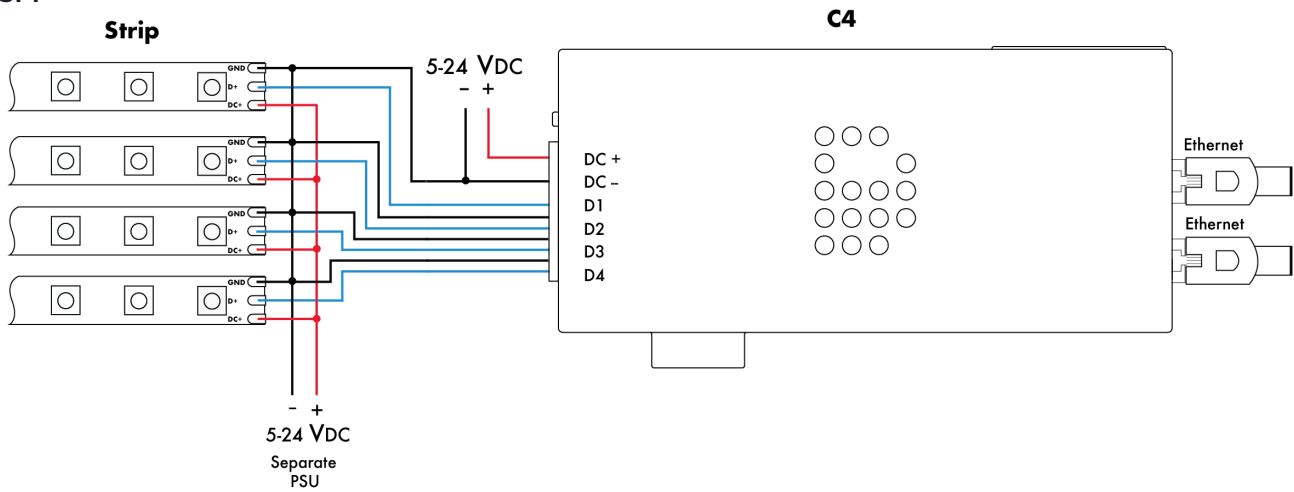
The DiGidot C4 Extended is a multi functional LED pixel controller that converts Art-Net and DMX to SPI protocols. The output capacity goes up to 8 universes, which is 4096 channels. (depending on the license) The internal DHCP server, Wi-Fi and free DiGidot App grant easy access of the built in web interface. A built in network switch allows multiple DiGidot C4 controllers to be daisy chained to create an extensive control network. The DiGidot C4 Extended offers Art-Net & DMX recording, playback and triggering. Extensive triggering options such as analog and digital triggers as well as the built in calendar offer great flexibility for system integration. Countless extra features such as DMX in and out, Art-Net IP Address filter, Art-Net routing, HTP input signal merger, Art-Net & DMX Monitor, in-/output channel repeater, Gamma correction, adjustable fall back color, output limiters, make this product to the most powerful LED pixel controller on the market.

Product images

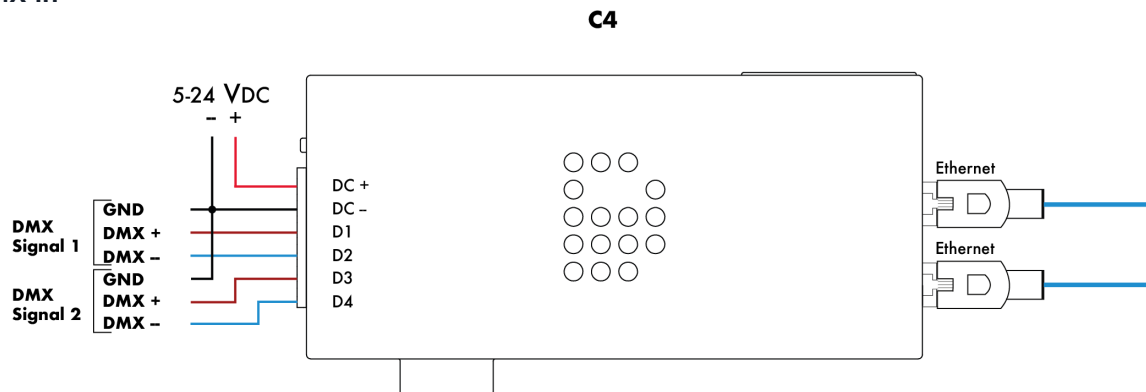


Wiring schemes (Data)

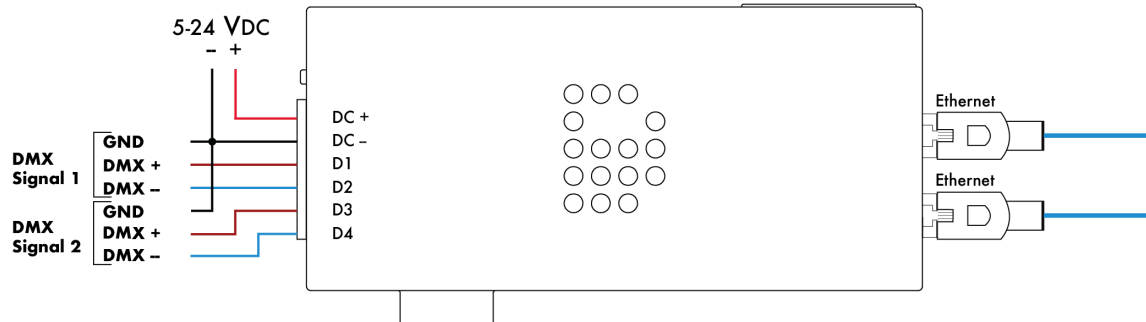
SPI



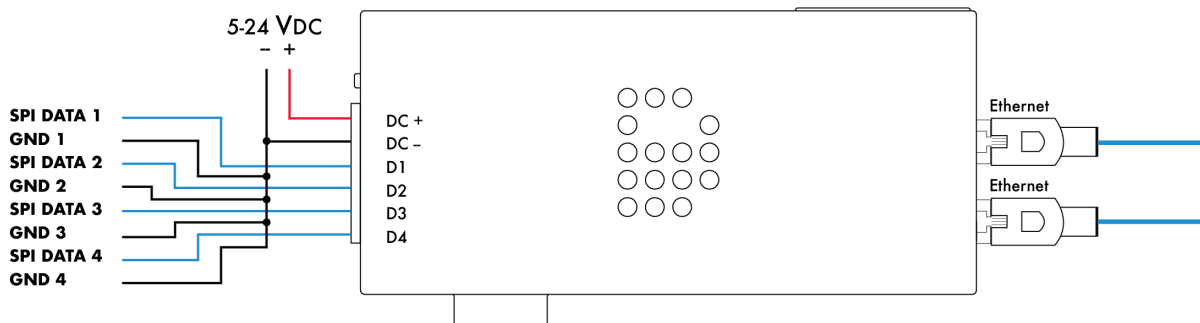
DMX in



DMX out

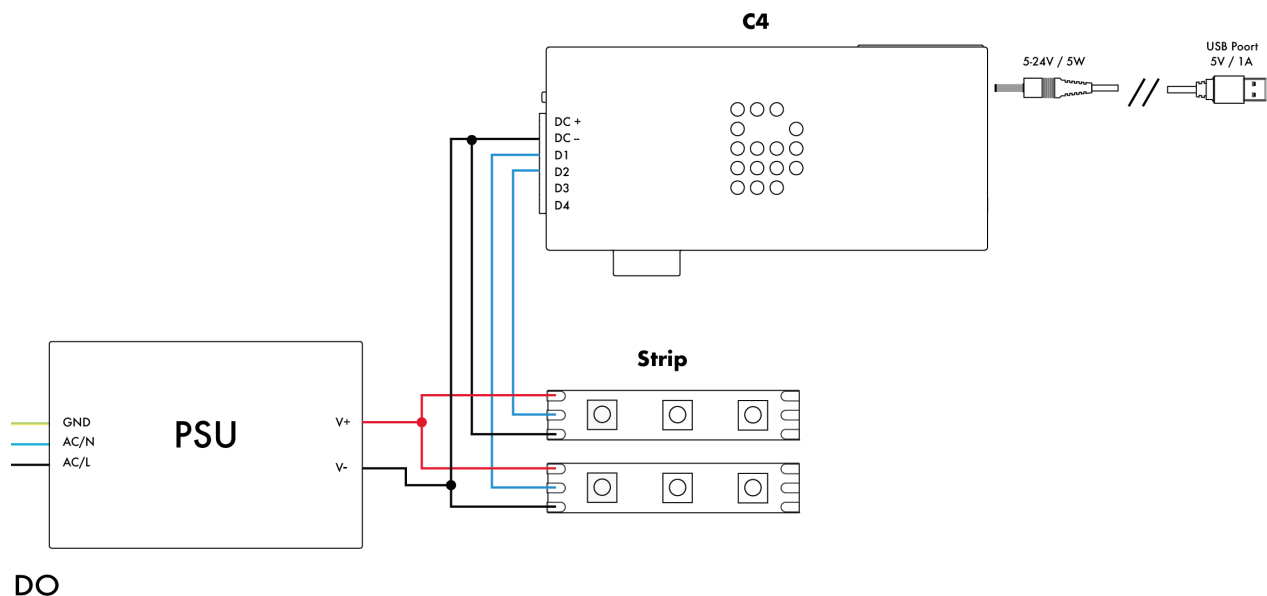
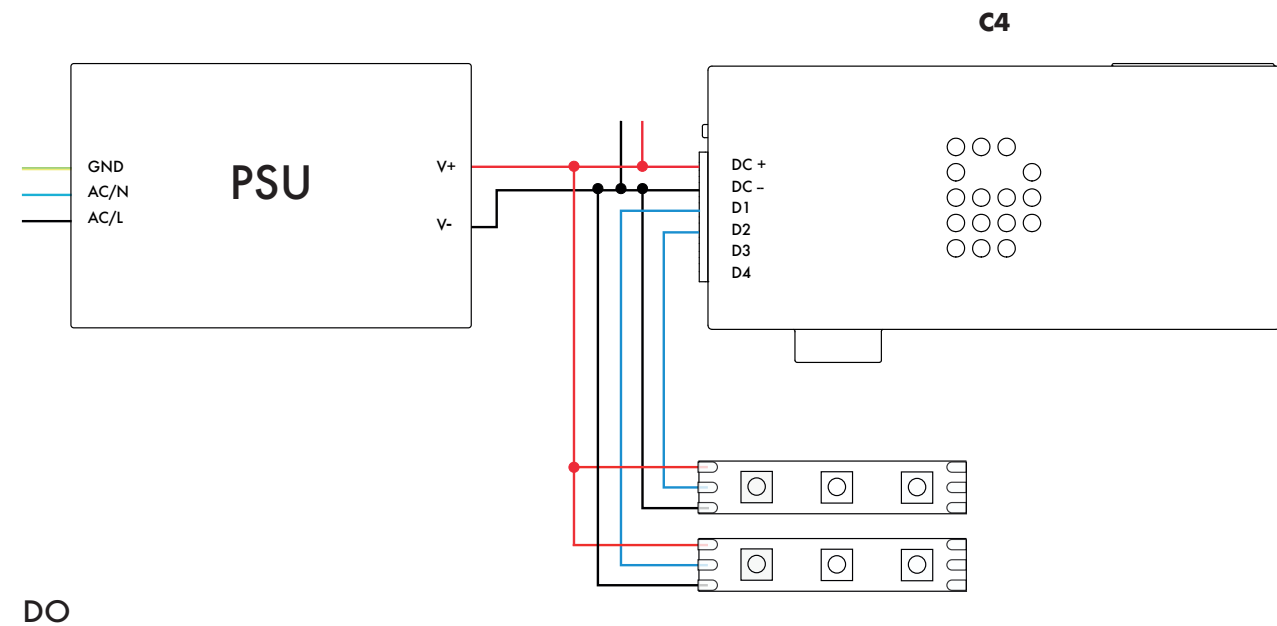


SPI



IMPORTANT: All Grounds, from the DiGidot C4 and all power supplies must be connected. The Ground output wires of each Data pair from the DiGidot C4 output must be equal in length as the Data wires.

Wiring schemes (Power)



For more wiring schemes, and technical information, please read the DiGidot C4 user manual.

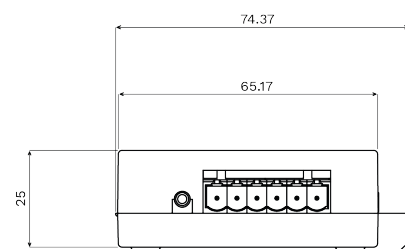
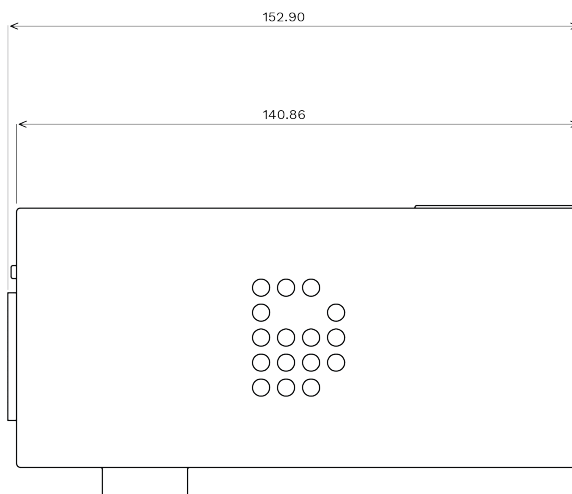
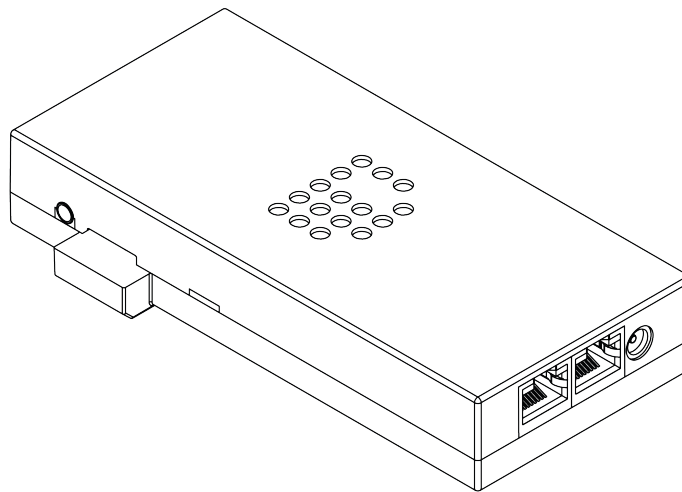
Specifications

Input voltage	5-24 Vdc
Max. Power consumption	5W
Housing material	Self extinguishing Acrylonitril-Butadiene-Styrene (ABS)
Dimensions	153 x 74 x 28 mm 6.02 x 2.91 x 1.10" (L x W x H)
Weight	140gr 4.93oz
Mounting	DIN rail or surface mounted
Operation Temperature (Tc)	0 to 50°C 32 to 122°F
Ambient Temperature (Ta)	40°C 104°F
Storage temperature	-20 to 50°C -4 to 122°F
Operating relative humidity	90% (indoor use only)
IP rating	IP10
Input Protocols	Art-Net 1,2,3 DMX512 (2 inputs) DMX RDM (2 inputs) DiGidot app
Output Protocols	Art-Net 1,2 & 3 (out/through) DMX512 (2 outputs) DMX RDM (2 outputs) DMX TTL (4 outputs) 47+ SPI protocols (check supported IC's list)
Channels	512 / 1024 / 2048 / 4096 Art-Net and/or up to 1024 DMX channels
Ethernet	RJ45 compatible, for 10/100 Base-TX Ethernet with Static IP address or DHCP
Wi-Fi	10/100 Base Ethernet with static IP address or DHCP
Wi-Fi protocols	802.11 b/g/n (HT20)
Frequency range	2.4 GHz ~ 2.5 GHz (2400M ~ 2483.5M)
TX Power	Max. +20 dBm
Antenna	On board
WiFi Mode	Client + AP
WiFi security	WPA, WPA2
Encryption	WEP/TKIP/AES
Wiring	Max. 2,5 mm ² 14 AWG
Connectors	Power: 5-24 Vdc power jack, Art-Net Data: RJ45 bus, IO port: 6-pin Input/Output terminal connector
Compliances	CE, listed under No. 2016/119-1, cETL US, listed under No. 5010008, RoHS
Applied standards	EN60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013, IEC60950-1 / EN60950-1, EN61006-6-3, EN55032

Extended specifications

Trigger port	Max. 3 dry contacts Max. 3 analog inputs (0-10V, 1-10V, 50 kΩ potentiometer)
Digital triggers	Internal clock Power up Onboard button Art-Net DMX Http-Get UDP JSON OSC DiGidot C4 web based user interface DiGidot C4 IOS/Google Play app
Memory card	8 GB Industrial grade microSD card (4 GB for record buffer, 4 GB for storing scenes, triggers, playlists, action lists, IO config files, etc.)

Technical drawings



Supported IC's

For the various 'Data' and 'Clock+Data' SPI protocols, following LED Driver IC's are supported:

APA102, APA102_8bit, APA104, APA106, BS0901, DM412, GW6205_400, GW6205_800, INK1003, LD1510, LPD6803, MBI6024, MY9221, MY9231, PC5XS301v0500, SK6812, SK6812RGBW, SM16703, SM16716, SM16726, TM1803, TM1804_400, TM1804_800, TM1809, TM1812, TM1814, TM1914a, UCS1903_400, UCS1903_800, UCS1904, UCS2903, UCS2904, UCS2912, UCS512B3, UCS8904, UCS9812, WES9412, WES943, WS2801, WS2803, WS2811_400, WS2811_800, WS2812, WS2812s, WS2812b, WS2813, WS2818

For an up to date overview of supported IC's visit www.digidot.eu.

Please note: In order to use the analog trigger port, the DiGidot TRRS Trigger cable (art. #20903) must be ordered separately.