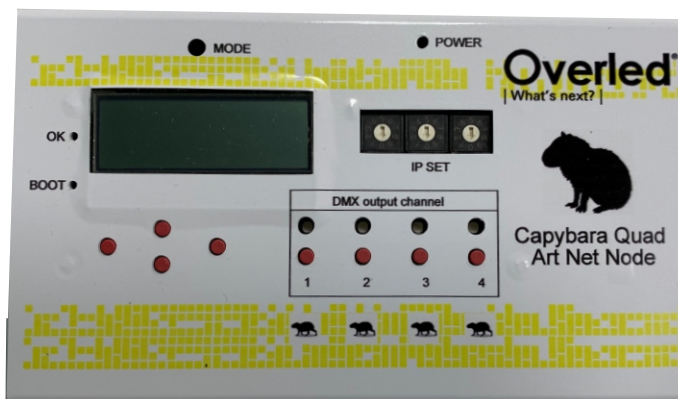


ART NET node to 4 DMX/RDM universe converter

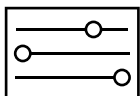
Capybara Quad

MADE IN ITALY

Art Net node to DMX/RDM converter, con 4 canali di uscita DMX optoisolati e dotati di protezione fino a 300vac contro errori di collegamento senza che siano causati guasti al dispositivo. Ogni singola uscita è isolata fino a 2500V, e 4000V rispetto l'ingresso di alimentazione. Ogni modulo Capybara Quad è dotato di connettori a cablare a 3 pin per la connessione del DMX, capybara quad è progettato per essere alloggiato in quadro elettrico. Il dispositivo è dotato di 3 commutatori per impostazione ultimo valore Ipv4 manualmente, mentre l'IP si assegna tramite comandi ART NET. Ogni uscita DMX è anche dotata di Led RGB che indica i vari stati operativi del singolo universe. E' possibile impostare una variante del DMX a DMX plus, dove il baud rate arriva fino a 500kbps contro i 250kbps del DMX standard, questo permette di avere almeno 60fps per universo. Un pulsante per ogni universe attiva le funzioni di autopatching e di auto show, molto utile in fase di installazione. Capybara Quad è anche in grado di registrare tutti e 4 universe nella SD fino al massimo di 4Gbyte, e di richiamare le relative registrazioni, quindi gli show tramite comandi art net di richiamarli. Aggiornamenti del firmware sono possibili tramite USB, e software di set up scaricabile da Overled.eu Capybara Quad è progettato con tecnologie a microcontrollore Embedded, quindi con tempi di boot all'accensione estremamente rapidi. L' hardware estremamente affidabile è progettato per lavorare in ambienti gravosi h24 per 365 giorni anno.



Art Net node to DMX/RDM converter, with 4 optoisolated DMX output channels with protection of up to 300vac against connection errors without causing device failures. Every single output is isolated up to 2500V, and 4000V compared to the power input. Each Capybara Quad module is equipped with 3-pin wired connectors for connecting the DMX, capybara quad is designed to be housed in an electric panel. The device has 3 switches to set last Ipv4 value manually, while the IP is assigned via ART NET commands. Each DMX output is also equipped with Led RGB that indicates the various operational states of the single universe. It is possible to set a variant of the DMX to DMX plus, where the baud rate reaches up to 500kbps against the 250kbps of the standard DMX, this allows you to have at least 60fps per universe. A button for each universe activates the autopatching and auto show features, which are very useful during installation. Capybara Quad is also able to record all 4 universes in the SD up to a maximum of 4Gbytes, and to recall its recordings, then the shows via art net commands to call them back. Firmware updates are possible via USB, and downloadable set-up software from Overled.eu Capybara Quad is designed with Embedded microcontroller technologies, so with extremely fast boot times on power. The highly reliable hardware is designed to work in heavy-power environments for 365 days a year.



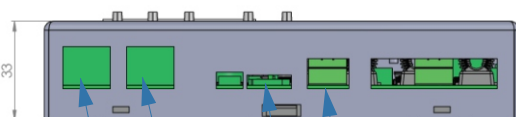
ART NET node to 4 DMX/RDM universe converter

Capybara Quad



set up button

side bottom



DMX port 1

SD memory

ethernet port 2

ethernet port 1

pin	DMX
1	GND
2	data B -
3	data A +

side up



power supply

P	Power Supply
1	+Vsupply
2	GND
3	+Vsupply
4	GND



Ethernet port 2

Ethernet port 1

Dmx port 1

Overled®

| What's next? |

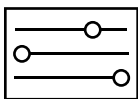


ELETTRONICA®

Overled è un marchio di DDS Elettronica s.r.l.
via Biondo, 171 • 41126 Modena (Mo) • Italy • Tel: +39 059 3314.65 • info@overled.com

www.overled.com

	Min.	Typ.	Max.
Power supply:	12vdc	24vdc	48vdc
Power consumption	8W	6W	4W
System Boot Time at power on	1 Sec.	1,2 Sec.	1,4 Sec.
DMX protection against voltage input	8Vdc/ac	230Vdc/ac	300Vdc/ac
DMX USITT512 - 33fps	250kbit	optoinsulated	
DMX + 60 fps	500kbit	Compatible	
Universe DMX	1		4
Autopatching with DDS DMX Driver			
Show Recorder SD Memory	2Gb		32Gb
RDM 2.0		Compatible	
2 Ethernet Port 10-100Mb max looping unit 48			
USB micro for firmware up load			
Max DMX controlled Device per Universe recommended	1		32
environmental			
operating temperature: -10° to +54°C			
Storage temperature: Tst -20° to +85°			
Case temperature: Tc +65°			



ART NET node to 4 DMX/RDM universe converter

Capybara Quad

MADE IN ITALY

IPV4 setting x.x.x.N Contraves:

The contraves (on the left side of the front panel) allows setting the least significant byte of the device's IP address.

The remaining three most significant bytes can be programmed by ArtNet Protocol.

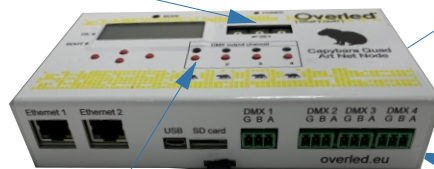
Example: Device's IP is 10.0.0.XXX; the upper side contraves is set on '1'; the middle contraves is set on '9'; the low side contraves is set on '2'. The resulting IP Address will be 10.0.0.192.

When a contraves setting is changed, the RGB leds will display the corresponding binary value: a set bit is indicated by BLUE; a reset bit is indicated by a weak grey.

The new IP address is accepted when the described bitmap disappears from the leds.

IP setting

DMX output universe 1



autpatching

DMX connector

Autopatching and PlayButtons:

If an sd-card with a recorded sequence is inserted in the slot, pressing the first button (channel one, left most) for at least 2 seconds will start the Playback. The channels involved will depend on the data recorded in the sd-card. To exit Playback mode, shortly press the first button again.

RGB led status indicator

Pressing a button for at least 5 seconds enters the DMX Test mode for the associated channel. While in DMX Test mode, ArtNet data is ignored. An RGBW sequence is output instead. If an sd-card is present and the button is the first one, the playback will start first, then the channel will switch to Test mode. To exit the DMX Test mode, press the button shortly. Pressing a button for at least 10 seconds activates the AutoPatch mode for the associated channel. Addressable devices (such as DDS859) connected to the channel will auto-address and auto-setup. When the AutoPatch procedure completes, the channel enters the DMX Test mode for 1 minute. To start DMX Test or AutoPatch on multiple channel at once, press the button of the first desired channel and the button of the last desired channel simultaneously.

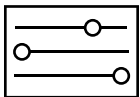
Panel's RGB led colors:

Flashing Light Red:	No data for this Universe: internally generated DMX framerate;
Flashing Light Green:	ArtNet data is being received and processed for this Universe;
Solid Light Red:	No data for this Universe, sd-card PLAY / REC in progress;
Solid Bright Red:	The associated button is pressed;
Flashing Magenta:	ArtNet data is being received and recorded to sd-card;
Flashing Cyan:	Data is played back from sd-card;
Solid Blue:	ArtNet data has been received and awaits to be processed in sync;
Solid Yellow:	DMX Test Pattern is being generated for this channel;
Solid Cold White:	AutoPatching in Progress on this channel;
Blink White:	RDM packets are being received on this channel.

Boot:

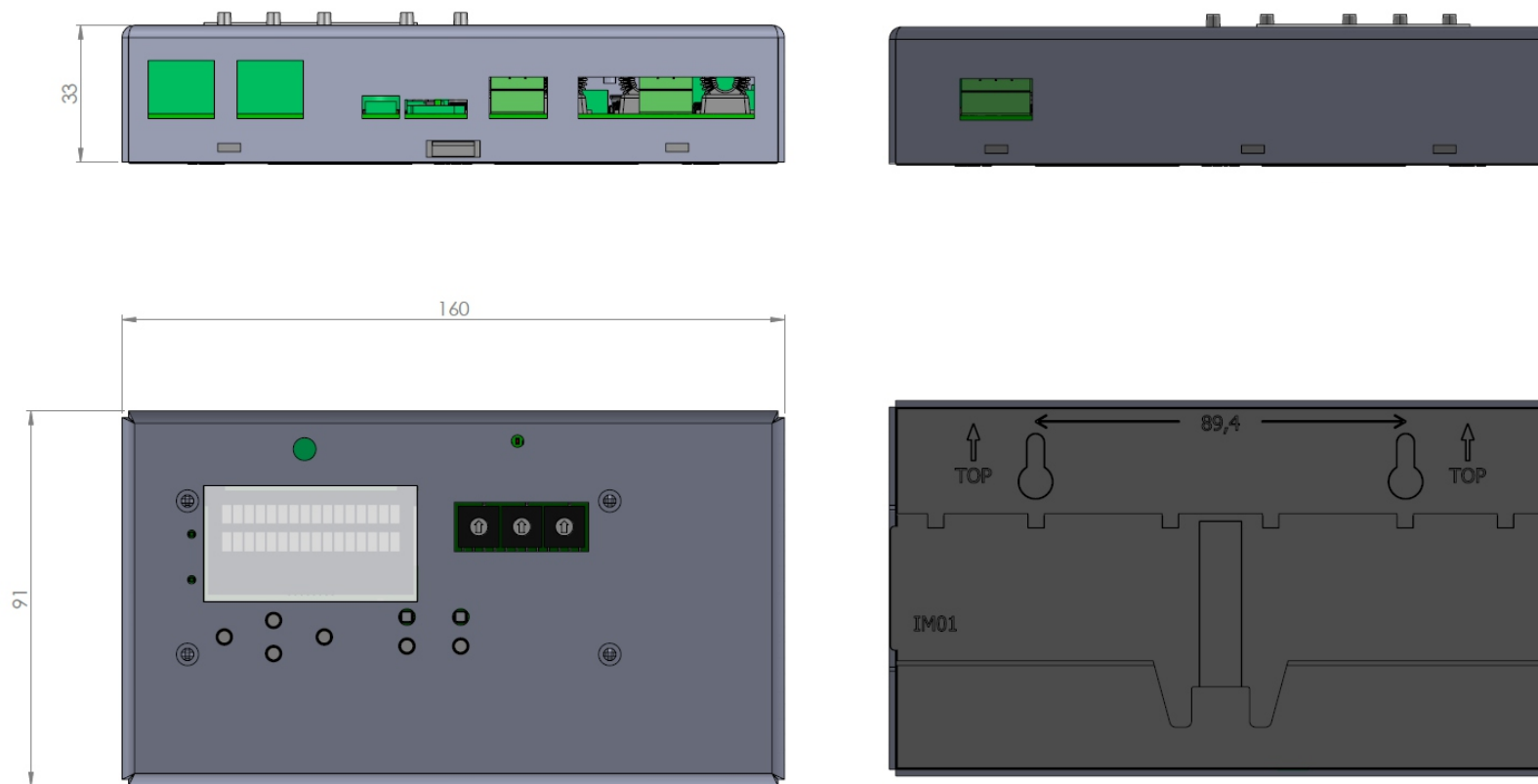
When the power is applied, the rightmost led will show a multicolor shade. This happens while the system is booting or during firmware upgrade.

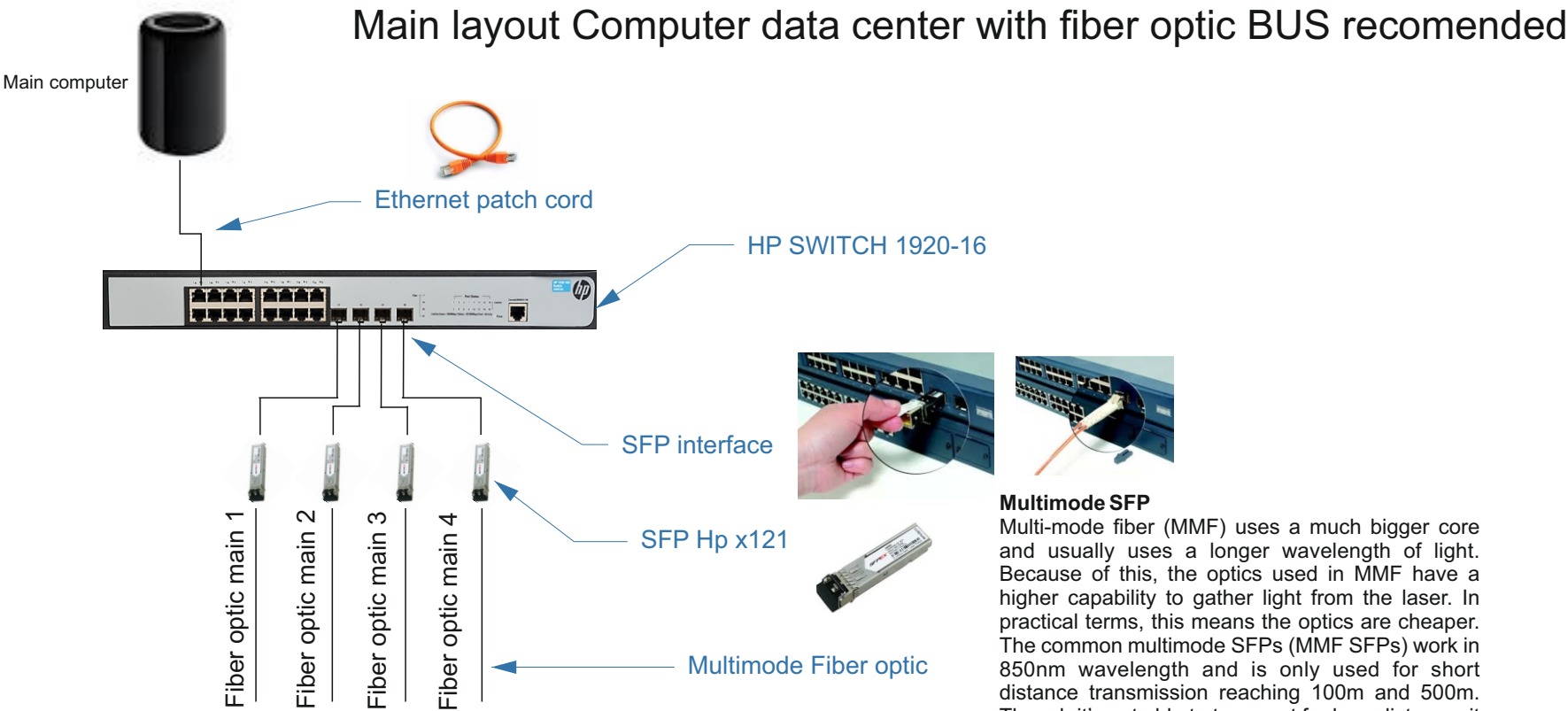
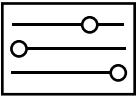
If the device stands in this condition indefinitely, the firmware is missing.



ART NET node to 4 DMX/RDM universe converter

Capybara Quad

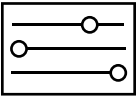




Multimode SFP
Multi-mode fiber (MMF) uses a much bigger core and usually uses a longer wavelength of light. Because of this, the optics used in MMF have a higher capability to gather light from the laser. In practical terms, this means the optics are cheaper. The common multimode SFPs (MMF SFPs) work in 850nm wavelength and is only used for short distance transmission reaching 100m and 500m. Though it's not able to transport for long distance, it can transport many kind of optical signals. Their color coded bale clasp and color arrow on label are black and the used fiber optic patch cord is usually orange.

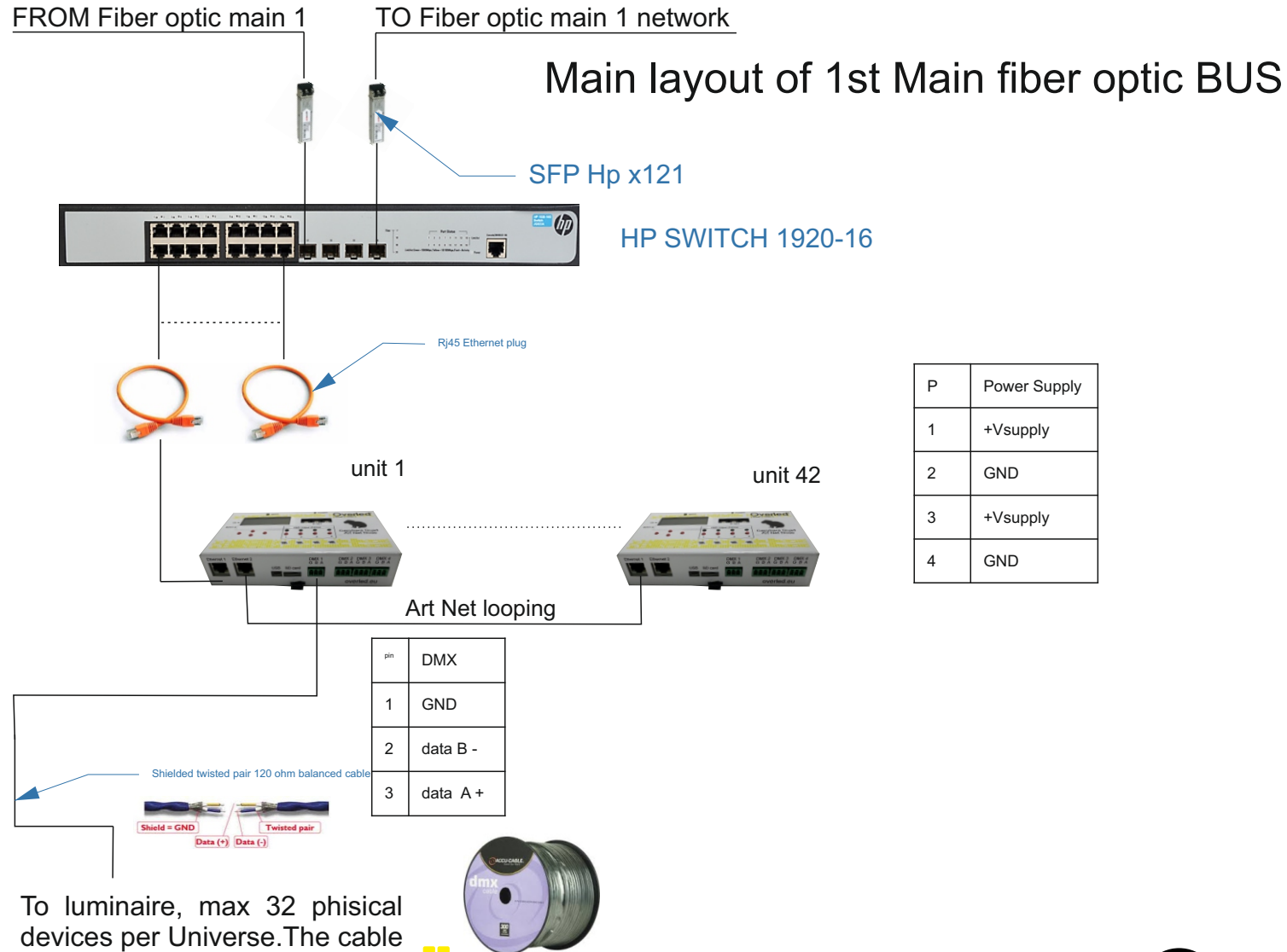
Buffer/jacket color	Meanings
Yellow	Single-mode optical fiber
Orange	Multi-mode optical fiber
Aqua	10 Gig laser-optimized 50/125 μm MM optical fiber
Grey	Outdated color code for MM optical fiber
Blue	Sometimes used to designate Polarization-Maintaining optical fiber





ART NET node to 16 DMX/RDM universe converter

Capybara Quad



Overled®
| What's next? |