

Small, Rugged and Reliable

OPTJ Optical Extenders for HDMI 2.0 HDMI20-OPTJ-TX/RX90



HDMI20-OPTJ-TX/RX90 optical extender pair set is a small, **fully HDMI 2.0 compatible** video extenders for distances of as long as **600 meters for Full 4K@60Hz 4:4:4** signals, and up to **2500 meters for Full HD** resolution, with **HDCP 2.2**, **HDR** and **Dolby Vision** are also supported.

HDMI20-OPTJ-TX/RX90 differs substantially from similar products on the market in features, design and durability.

Dynamically changing environments, typically **rental and staging** can greatly benefit from the easy placement and rugged build.



Similarly, **government enforcement agencies** in ad hoc operations with video technology can also find easy placement, rugged housing, and reliable, fault-free signal extension advantageous.



Installers working with **medical applications** also choose this device because it is easy to place, easy to hide and due to its machined metal chassis, it is easy to clean and disinfect.

Large commercial space areas can achieve excellent, latency-free, brilliant video quality in **digital signing** in the most distant areas as well, while the small size and the tough shell provide easy placement.



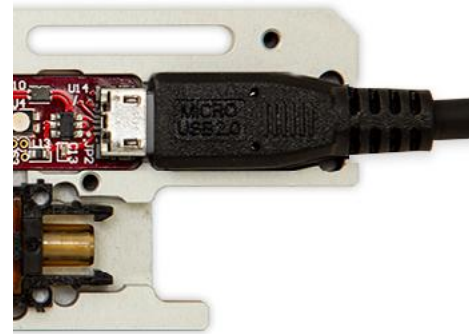
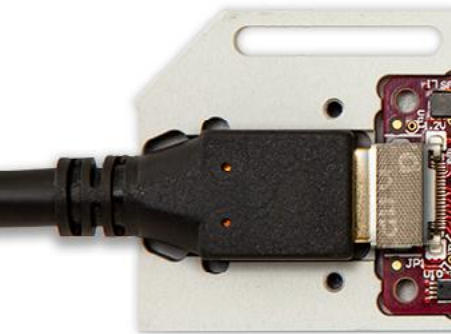
Tough and Cool

These optical extenders have a **machined aluminium chassis**, which is **very durable**, while their surface can also be **kept clean easily**, and also provides **excellent passive cooling** to channel the operating heat.



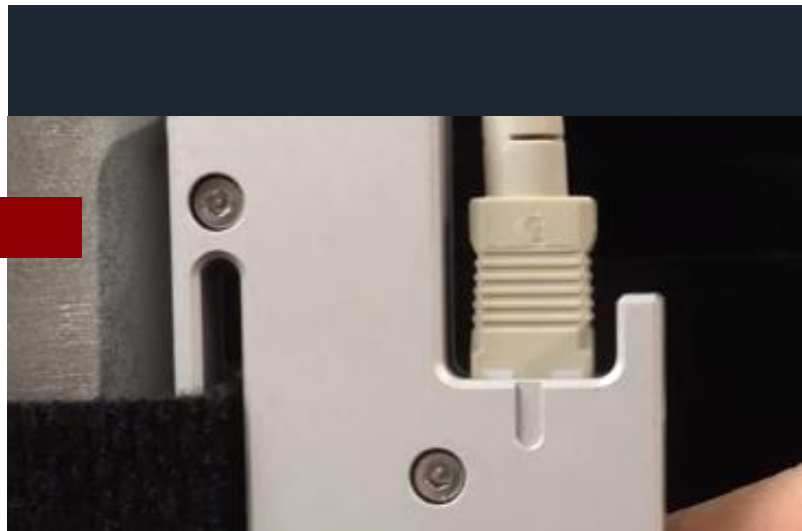
Factory Installed Port Saver Cables

Fixed USB (for power feed) and HDMI cables of the HDMI20-OPTJ-TX/RX90 are actually **built-in 'port saver' cables**, firmly fixed, but with real connectors inside, so in case there's need for a change at a later time, it is going to be an easy task, even performable by more expert endusers.



Dedicated Bumper for the Optical Port

A **stub is protecting the optical connector** against physical harm.



Advantages for Installation and Operation

Hook and Loop Anywhere

Installation placement options are almost limitless: there are **loops for hook-and-loop fasteners** (commonly referred to as Velcros) in the chassis, so these extenders can be mounted to practically anywhere.



Reduced Cable Stress



The **HDMI cable is unusually long, 80 cm**, which helps device placement and reduce strain on the cable.



Rack to Keep the Herd Together

Two threads on the long, narrow side of the extenders are for securing them into their specially designed **power tray, which can accommodate up to 16 units**, which can be transmitters and receivers in any mix. While being used in the power tray, which also provides power to all installed devices, the feedback LEDs are mirrored on the front of the tray. The power tray is available with **various optical connectors**.

Build an HDMI 2.0 Optical Matrix

In a configuration together with our **MX2-8x8-HDMI20-Audio-L** matrix switcher and with the use of a fully populated power tray, an **HDMI 2.0 compatible optical matrix router** configuration can be built.



● OFF	Module is not powered.
● BLINKING (red)	No fiber link is detected.
● BLINKING (yellow)	No HDMI signal is detected
● BLINKING (green)	Fiber link is established, signal is not HDCP-encrypted
● ON (green)	Fiber link is established, signal is encrypted with HDCP 1.4
● ON (blue)	Fiber link is established, signal is encrypted with HDCP 2.2

Features and Specification

- HDMI 2.0, HDMI 1.x and DVI 1.0 compliant
- HDCP 2.2, HDCP 1.4 compliant and CEC, EDID transparent
- 36-bit deep color support
- 3D signal compatibility with frame packing, side-by-side and top-bottom formats
- Zero frame delay: no compression, no latency
- SC connector: one MultiMode fiber cable to up to 600 m distance
- 2500 m extension range for FullHD signals
- HDMI audio formats: Dolby TrueHD and DTS-HD Master Audio
- 5-color Status LED
- Massive metal chassis for safety, security and passive cooling
- Loopholes for mounting with self-fastening straps
- Top and bottom threads for mounting on rack power tray
- Easily replaceable, fixed port saver USB and 80 cm long HDMI 'pigtail' cables
- Available PowerTray mounting for 16x units with power source for rack installation

3 Years of Warranty

Learn More

Please learn more about the technical details, features and services of HDMI20-OPTJ-TX/RX90 on the dedicated product page. Should you have any questions or request, contact our globally available sales and support services.

Informative LED Feedback

5-color feedback LED shows clear and useful information about the current state of signals within the extender.

Data rate:	18 Gbps (6 Gbps per color)
Resolution:	Up to 4K@60Hz 4:4:4
Video delay:	0 frames
HDCP 2.2 and 1.4 pass through:	Yes
EDID emulation:	Transparent EDID
HDR Modes:	HDR and Dolby Vision
RS-232 pass through:	No
Micro-USB B cable:	Power Feed and Firmware Upgrade
Cooling:	Passive
Power consumption (1080p60 / 4K60):	TX 1,5 W / 2W RX 0,8 W / 1W
Operating temperature:	0 to +50°C (+32 to +122°F)
Storage temperature:	-40 to +85°C (-38 to +185°F)
Operating humidity:	10% to 90%, non condensing
Material:	Aluminium
Enclosure dimension:	110,5 W x 35,5 D x 11x4 H (mm)
Weight:	130 g
Rack mountable:	Yes, with 1U high rack shelf
Lenght of pigtail HDMI cable:	800 mm
Lenght of pigtail USB cable:	1000 mm

Lightware provides **3 years of warranty** for this product, and with probably the best support services in the AV industry, the HDMI20-OPTJ-TX/RX90 set is the best choice for the job if you are looking for a **quality product with long-term reliability**.