



The Real4K™ Optical Adapter is an HDMI 2.0 extender enabling uncompressed 4K video to be transmitted over extended distances.

FEATURES

- Supports HDMI 2.0 and HDMI 1.4 signals
- Full UHD 4K 4:4:4 @ 60Hz
- Supports HDCP 2.2 and 1.4
- Single fibre operation
- Multicolour LED status indication

HDMI INTERFACE

- Transmitter and receiver automatically detect HDMI 2.0 and HDMI 1.4
- Auto-detection of HDCP 1.4 and HDCP 2.2
- Supports Consumer Electronics Control (CEC) timings

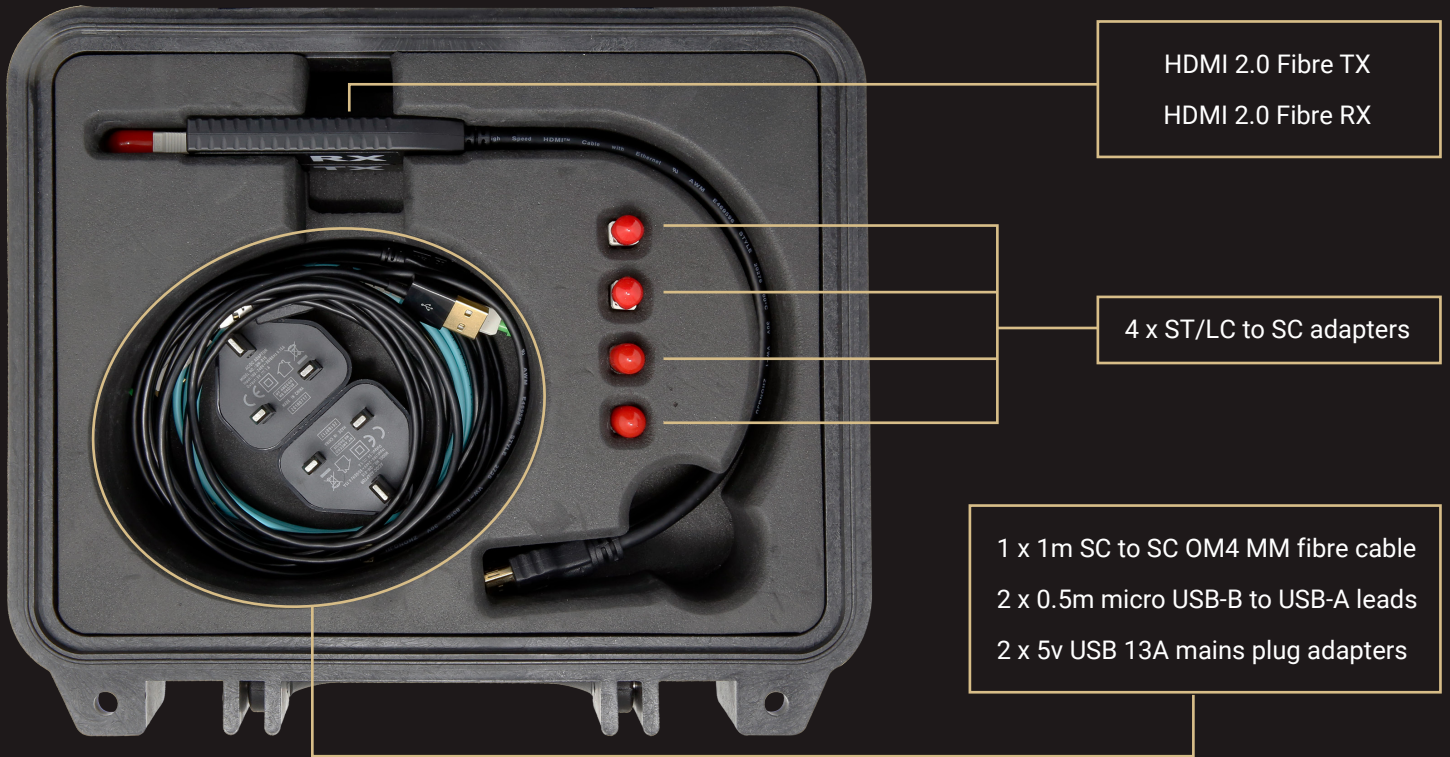
USB INTERFACE

- Provides power to the QED TX and RX modules
- Enables firmware upgrades to the local QED TX and RX module via USB 2.0 or 1.1 compatible Host
- Micro USB-B to USB-A cables supplied

FIBRE INTERFACE

- Fibre type: OM4 single multimode fibre cable
- Connector type: SC
- Up to 900m @4K 60Hz, 2500m @HD 60Hz





HDMI 2.0 Fibre TX
HDMI 2.0 Fibre RX

4 x ST/LC to SC adapters

1 x 1m SC to SC OM4 MM fibre cable
2 x 0.5m micro USB-B to USB-A leads
2 x 5v USB 13A mains plug adapters

LED STATUS INDICATORS

LED	Description
Red (Blinking)	No Fibre
Yellow (Blinking)	No HDMI
Green	HDCP 1.4
Blue	HDCP 2.2
Green (Blinking)	HDCP 1.4 (not encrypted)
Blue (Blinking)	HDCP 1.4 (not encrypted)

ELECTRICAL OPERATING CONDITIONS

Parameter	Symbol	Min	Max	Unit
Supply Voltage	V _{dd}	4.75	5.25	V
Transmitter Supply Current	I _{TX}	0	400	mA
Receiver Supply Current	I _{RX}	0	250	mA
Operating Temperature Range	T _c	0	50	°C

ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Min	Max	Unit
Storage Temperature Range	T _s	-40	85	°C
Electrostatic Discharge Contact (IEC)	ESD		8	kV
ESD Air Discharge (IEC)			15	kV
Supply Voltage	V _{dd}		5.5	V

COMPLIANCE

- FCC Part 15 Class B for Susceptibility, Radiated and Conducted
- CE for Susceptibility, Radiated and Conducted
- Optical Fibre Communication System Class 1 Eye Safety per IEC 60825-1
- IEC 60825-1:2014-05 Ed. 3.0
- FDA CDRH

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