



# LK2-DP

Lossless transmission by 4K@60Hz 4:4:4 Dolby Vision

DP 1.4 Compliance with AUX signal transmission

Highest resolution 8K(7680x4320@60Hz) or 4K@120Hz

Fiber optical bandwidth 32.4Gbps

LC fiber connector, transmission over single fiber optic cable

Support single/multi mode fiber, transmit up to 300m

Support bi-directional IR and transparent RS-232

EDID Pass-through

12V power supply with locker

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# INTRODUCTION

LK2-DP is a DP1.4 fiber optical extender with 32.4Gbps bandwidth. Supporting uncompressed resolution up to 8K@60Hz or 4K@120Hz on the distance up to 300m. Signals are transported over a single optical fiber cable with either single-mode or multi-mode fiber cable.

The extender pair is using CWDM technology with 6 wavelength lasers in the extender pair. The data rate of the 1270nm/1290nm/1310nm/1330nm lasers are 8.1Gb/s, these 4 CWDM lasers transmit the DP TMDS signal from TX to RX unit. The 1490nm/1550nm laser data rate is 1.25Gb/s, which transmit the AUX signal, IR and RS232 signal Bi-directionally.

It's the perfect solution for smart home audio visual system, UHD Public video system, outdoor remote transmission and so on.

# PANEL DESCRIPTION

Transmitter

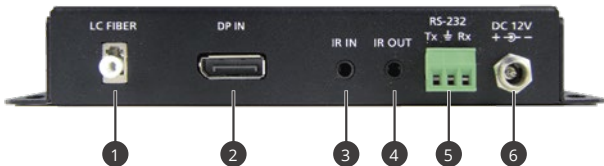


- 1 Power LED Indicator
- 2 Optical Signal Link LED Indicator
- 3 DP Source Connection LED Indicator
- 4 HPD Signal LED Indicator

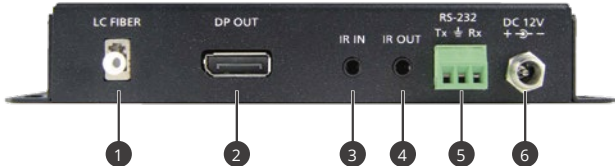
Receiver



- 1 Power LED Indicator
- 2 Optical Signal Link LED Indicator
- 3 DP Source Connection LED Indicator
- 4 HPD Signal LED Indicator

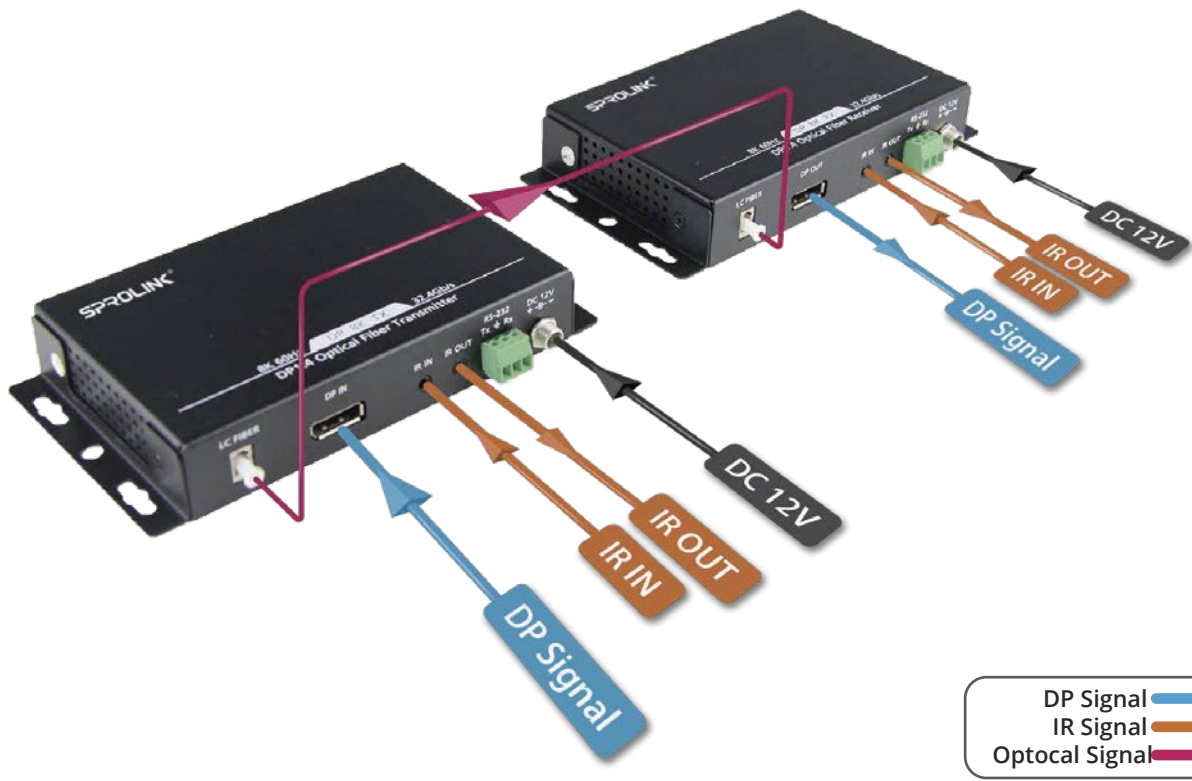


- 1 1 x LC Fiber Connector
- 2 DP Input ConnectorDP Input Connector
- 3 IR IN
- 4 IR OUT
- 5 RS-232 Bi-directional Port
- 6 DC +12V Power Supply



- 1 1 x LC Fiber Connector
- 2 DP Input ConnectorDP Output Connector
- 3 IR IN
- 4 IR OUT
- 5 RS-232 Bi-directional Port
- 6 DC +12V Power Supply

# CONNECTION DIAGRAM



# SPECIFICATION

Module	LK2-DP Optical Fiber Extender	
Resolution	8K@60Hz(Downward Compatible)	Sender (TX) &Receiver (RX) 8K(7680x4320@60Hz)  4Kx2K@120Hz
Components	Laser Diodes	1270/1290/1310/1330nm8.1Gb/s CWDMDFB Lasers 1490nm/1550nm1.25Gb/s CWDMDFB lasers
	WDMFilter	Integrated 1270nm/1290nm/1310nm/1330nm/1490nm/1550nmfilter
Signal Parameters	Input & Output Signals	TMDS Level (Compatible with DP1.4)
	Bandwidth(TMDS Channel)	8.1Gbps
	Data Rate	Max 32.4Gbps
Optical	Link Power Budget	Min 8dB
Mechanical	Module Dimension (mm)	160mmx85mmx26mm
	Approx weight	300g
	Power adapter	AC input 100240V/50/60Hz DC output 12V1A
Connector	Optical Connector	1 x LC Fiber Connector
	System & Display	DisplayPort Female
	Recommended Fiber	OM3 Multi-mode Fiber or Single-mode Fiber
Extend Distance	Maximum	300m
Working Environment	Operating temperature	-10to 60 deg C
	Storage temperature	-20 to 80deg C
	Relative Humidity	5%to 90% non-condensing

# SPROLINK<sup>®</sup>

CREATIVE VIDEO REVOLUTION

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