



KRAMER

612R/T

4K60 4:4:4 DP Transmitter/Receiver over
Extended-Reach MM Fiber Optic



612R/T is a compact fiber optic transmitter and receiver capable of extending uncompressed DisplayPort 1.2 over fiber optic cable. This set of extenders supports 4K@60 (4:4:4) resolution up to 328 feet (100 meters) on a dual LC multi-mode fiber cable

FEATURES

- Compliant with DisplayPort™ v1.2 specifications
- Max. Resolution - 4096x2160@60Hz
- Max. Data Rate - 21.6Gbps (5.4Gbps per lane)
- Supports Dual-mode DP (DP++)
- Max. Extension - 328ft (100m) over dual LC multi-mode OM3 fiber optic cable
- Supports Auxiliary I²C channel over fiber
- Compact Design - For easy plug and play installations
- Pure fiber connectivity for secure applications



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TECHNICAL SPECIFICATIONS

Max. Resolution:	4K @60Hz 4:4:4 (4096x2160)
Data Rate:	Maximum 21.6 Gbps (HBR2)
Compliance:	Supports HDCP 2.2, EDID and DPCP
DisplayPort Support:	Dual-mode DP (DP++)
612T (source end):	Male DisplayPort gold plated
612R (display end):	Male DisplayPort gold plated
612T (source end):	Micro USB (for power supply)
612R (display end):	Micro USB (for power supply)
5V:	Via USB source, external source, or DisplayPort PIN #20
Structure:	Dual Multi-mode OM3 (50/125um) glass fiber
Optical Connectors:	Duplex LC connectors
Max. Fiber Cable Attenuation ($\lambda=850\text{nm}$):	2.5dB/KM
Max. Skew:	0.4ns
Max. Insertion Attenuation:	0.5dB
Total Optical Attenuation:	1dB max @ 328ft/100m extension
Maximum Length:	100m (330ft)
Operating Temperature:	0° to +50°C (32° to 122°F)
Storage Temperature:	-30° to +70°C (-22° to 158°F)
Operating Humidity:	0 to 85%
CE:	EN 55032:2012/AC: 2013 (Class A), EN 61000-3-2:2014, EN 61000-3-3:2013, EN 55024:2010, EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013
FCC:	CFR 47 part 15 SUBPART B, Section 15.101
Environmental:	RoHS (2011/65/ EU)
Included:	2 Micro USB to USB type-A cables, 2 Wall-mount power adaptors, 1 20cm DisplayPort (M) to (F) copper extension cable