



KRAMER

612R/T

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

| HDMI | 4K/60 UHD (4:4:4)



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 656 feet (200 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 - 656ft (200m) 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



TECHNICAL SPECIFICATIONS

| | |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Video | <p>Max. Resolution: 4K @60Hz 4:4:4 (4096x2160)</p> <p>Data Rate: Maximum 21.6 Gbps (HBR2)</p> <p>Compliance: Supports HDCP 2.2, EDID and DPCP (DisplayPort Content Protection)</p> <p>DisplayPort Support: Dual-mode DP (DP++)</p> |
| Ports | <p>612T (source end): Male DisplayPort gold plated</p> <p>612R (display end): Male DisplayPort gold plated</p> <p>612T (source end): Micro USB (for power supply)</p> <p>612R (display end): Micro USB (for power supply)</p> |
| Power | <p>5V: Via USB source, external source, or DisplayPort PIN #20</p> |
| Recommended Cable | <p>Structure: Dual Multi-mode OM3 (50/125um) glass fiber</p> <p>Optical Connectors: Duplex LC connectors</p> <p>Max. Fiber Cable Attenuation ($\lambda=850\text{nm}$): 2.5dB/KM</p> <p>Max. Skew: 0.4ns</p> <p>Max. Insertion Attenuation: 0.5dB</p> <p>Total Optical Attenuation: 1dB max @ 656ft/200m extension</p> <p>Maximum Length: 200m (656ft)</p> |
| Environmental Conditions | <p>Operating Temperature: 0° to +50°C (32° to 122°F)</p> <p>Storage Temperature: -30° to +70°C (-22° to 158°F)</p> <p>Operating Humidity: 0 to 85%</p> |
| STANDARDS COMPLIANCE | <p>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</p> <p>FCC: CFR 47 part 15 SUBPART B, Section 15.101</p> <p>Environmental: RoHS (2011/65/ EU)</p> |
| Accessories | <p>Included: 2 Micro USB to USB type-A cables, 2 Wall-mount power adaptors, 1 20cm DisplayPort (M) to (F) copper extension cable</p> |