

Specifications

DDX 102 Tx/Rx

NOTE: The DDX 102 Tx/Rx consists of a transmitter (DDX 102 Tx) and a receiver (DDX 102 Rx) with fiber optic cables linking the two units.

Optical fiber interconnection between transmitter and receiver

Number/type	2 fiber optic, 50/125 μm multimode or 62.5/125 μm multimode
Connectors	2 female LC connectors
Operating distance	300 m (985') with 62.5 μm OM1 multimode (MM) cables 500 m (1640') with 50 μm OM2, OM3, or OM4 multimode (MM) cables

NOTE: Operating distance is approximate. This is a typical distance. The maximum distance may be greater than these typical numbers depending on factors such as fiber type, fiber bandwidth, connector splicing, losses, modal or chromatic dispersion, environmental factors, and kinks.

Nominal peak wavelength	850 nm
Optical loss budget	9.5 dB, maximum

Video

Gain	Unity
Maximum data rate	10 Gbps (1.65 Gbps per color)
Maximum pixel clock	330 MHz
Resolution range	Up to 1920x1200 or 1080p @ 60 Hz using single link Up to 2560x1600 @ 60 Hz using dual link
Formats	RGB and YCbCr digital video
Standards	DVI 1.0

Video input — transmitter

Number/signal type	1 single link or dual link DVI
Connectors	1 male DVI-D

Video output — receiver

Number/signal type	1 single link or dual link DVI
Connectors	1 male DVI-D

General

Power supply	External: Input: 100-240 VAC, 50-60 Hz Output: 5 VDC, 3 A, 15 watts The source device's 5 VDC output on pin 14 of a DVI connector can power the transmitter.
Power consumption	
Transmitter	
Device	2.0 watts, 5 VDC
Receiver	
Device	1.7 watts, 5 VDC
Temperature/humidity	Storage: -22 to +158 °F (-30 to +70 °C) / 10% to 85%, noncondensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 85%, noncondensing
Cooling	Convection, no vents
Mounting	No

Enclosure type.....	Metal
Enclosure dimensions	0.6" H x 1.5" W x 2.8" D (1.5 cm H x 3.9 cm W x 7.2 cm D) (Depth excludes DVI connector.)
Product weight.....	0.7 lbs (0.3 kg) per Tx/Rx pair
Shipping weight.....	1 lb (<1 kg) per Tx/Rx pair
Vibration	ISTA 1A in carton (International Safe Transit Association)
Regulatory compliance	
Safety	CE
EMI/EMC	CE, FCC Class A
Environmental.....	Complies with the appropriate requirements of RoHS, WEEE.
Warranty.....	3 years parts and labor

NOTE: All nominal levels are at $\pm 10\%$.

NOTE: Specifications are subject to change without notice.

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