

DL-HDE100 Technical Specifications

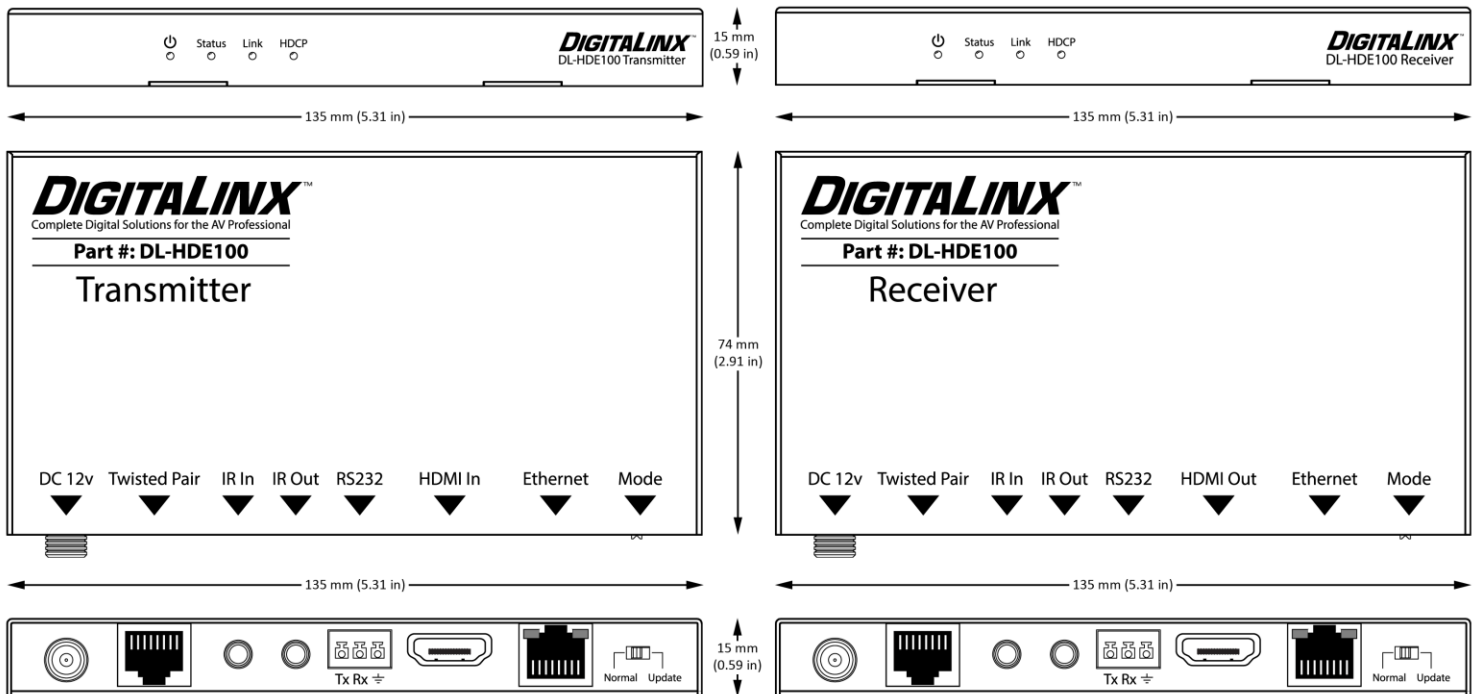
DigitalInx HDBaseT with Control Extender Set

Rev. 140204

The DigitalInx DL-HDE100 HDBaseT extender set transmits HDMI, Ethernet, bidirectional IR, and RS232 up to 100 meters away using a single twisted pair cable.

Built-in surge protection and diagnostic LEDs ensure hassle-free and robust installations. Flexible power design allows the units to be powered at either the TX or RX end, and only one power supply is required. The 18 volt power supply is secured with a screw-on connector to prevent the power from being accidentally disconnected.

The DL-HDE100 is sold only as a set. All accessories are included including two IR emitters, two IR receivers, and two pairs of mounting brackets with screws. The individual transmitter and receiver are not compatible with other HDBaseT devices due to proprietary PoE circuitry.



Technical Specifications	
I/O Connections	
HDMI	One (1) HDMI Type A Receptacle
Twisted Pair	One (1) 8P8C port (Shielded RJ45)
Ethernet	One (1) 8P8C port (Shielded RJ45)
IR Input	One (1) 3.5mm TRS Jack
IR Output	One (1) 3.5mm TS Jack
RS232	One (1) 3-Pole Euroblock connector
12V DC Power	One (1) 5.5 mm Outside Diameter, 2.1 mm Inside Diameter Barrel (Locking)
Supported Audio, Video and Control	
Maximum Video Compatibility with Cat 6 or greater cable	90 m: Deep Color 48/36/30/24 Bit at 1080p, 3D, and 4k x 2k
Maximum Video Compatibility with shielded Cat 6 or greater cable and shielded connectors	100 m: Deep Color 48/36/30/24 Bit at 1080p, 3D, and 4k x 2k
Video Compliance	HDMI, HDCP, and CEC (Consumer Electronics Control)
Embedded Audio	Up to PCM 8 channel, Dolby Digital TrueHD, and DTS-HD Master Audio
Input DDC Signal	5.0 volts p-p (TTL)
Input Video Signal	0.5 to 1.0 volts p-p
IR Carrier Frequency Range	33-55kHz at 5 volts
Ethernet	100BaseT
RS232 Baud Rate	Up to 115200 baud
HDBaseT Signal Characteristics	
Maximum Distance	100 m
Cable Requirements	Category 6 or greater with TIA/EIA-568B crimp pattern
Bandwidth	10.2 Gbps
Gain	0 dB – 10 dB at 100 MHz
Resolution Range	800x600 – 1920x1200
Signal to Noise Ratio (SNR)	> 70 dB at 100 MHz over 100 m
Return Loss	< -30 dB at 5 KHz
Total Harmonic Distortion (THD)	< 0.005% at 1 KHz
Min-Max Signal Level	< 0.3 V – 1.45 Vp-p
Differential Phase Error	±10° at 135 MHz over 100 m
Chassis and Environmental	
Enclosure	Painted steel
Dimensions	135mm x 74mm x 15mm (5.31 in. x 2.91 in. x 0.59 in.)
Shipping Weight	0.82 kg (1.8 lbs.)
Operating Temperature (Environment)	0° to +40° C (+32° to +104° F)
Operating Temperature (Chassis)	31° C (88° F) (S); 38° C (100° F) (R)
Operating Humidity (Environment)	20% to 90%, Non-condensing
Storage Temperature (Environment)	-10° to +60° C (+14° to +140° F)
Storage Humidity (Environment)	20% to 90%, Non-condensing
Power, ESD, and Regulatory	
Maximum Power Consumption	3 watts (S), 6 watts (R)
Power Supply	18vDC
ESD Protection	15kV
Regulatory	CE, RoHS
Other	
Standard Warranty	2 Years
Diagnostic Indicators	Power, Status, Link, and HDCP LEDs
Included Items	Installation Guide, power supply, US power cord, IR emitters (2 ea), IR receivers (2 ea), mounting "L" brackets (4 ea), mounting screws (4 ea)

Distances and picture quality may be affected by cable grade, cable quality, source and destination equipment, RF and electrical interference, and cable patches. Liberty AV Solutions' specifications are based on straight-through cabling with standard-grade Cat 5e unless noted otherwise.

