DIP-20

HDMI & Computer Graphics with Ethernet, Bidirectional RS−232, IR & Stereo Audio over HDBaseT Transmitter & Step−In Commander

The DIP−20 is an 4K ultra HD HDBaseT transmitter and step−in commander for computer graphics video, HDMI, unbalanced stereo audio signals embedding and de−embedding. The DIP−20 accepts an HDMI and PC graphics video input, an Ethernet signal, serial data, and an unbalanced stereo audio input (which is embedded into the output signal), and transmits the signal via HDBaseT (twisted pair) cable to a compatible receiver (for example, the TP−588D or the TP−580RXR). The
DIP−20 is a PoE (Power over Ethernet) provider and can power compatible PoE acceptors, (for example, the TP−588D and the TP−590RXR).

FEATURES

- **Max. Data Rate** - 10.2Gbps (3.4Gbps per graphic channel) with 4K ultra−HD support.
- **HDTV Compatible.**
- **HDCP Compliant** - Works with sources that support HDCP repeater mode.
- **HDMI Support** - Deep Color, x.v.Color™ and 3D.
- **Automatic Live Input Detection** - Based on video clock presence.
- **Automatic Input Selection** - Based on manual selection or last connected input.
- **Automatic Analog Audio Detection & Embedding.**
- **I-EDIDPro™ Kramer Intelligent EDID Processing™** - Intelligent EDID handling & processing algorithm ensures Plug and Play operation for HDMI systems.
- **Data Equalization and Reclocking.**
- **Local Balanced Audio De-Embedding.**
- **Support for Digital Audio Formats.**
- **Lockable EDID.**
- **System Range** - Up to 130m (430ft) at normal mode (2K), up to 100m at normal mode (4K); up to 180m (590ft) ultra mode (1080p @60Hz @24bpp) when using BC−HDKat6a cables.
- **Local Step-In Switching** - Button & contact closure.
- **Power Supply** - Supports PoE to power a remote receiver (such as TP−588D). Requires independent power supply.

TECHNICAL SPECIFICATIONS

INPUTS:	2 HDMI on HDMI connectors, 1 VGA on a 15−pin HD (F) connector, 1 unbalanced stereo audio 1V RMS (nominal) on a 3.5mm mini jack.
OUTPUTS:	1 HDBaseT on an RJ−45 connector, 1 unbalanced stereo audio 1V RMS (nominal) on a 3.5mm mini jack.
PORTS:	1 Ethernet on an RJ−45 connector, 1 RS−232 3−pin terminal block control port, 1 RS−232 3−pin terminal block data port, 1 USB on mini USB connector.
CONTROLS:	Remote switches for input switching, step−in, volume control, and device reset switch.
STANDARDS:	HDMI with Deep Color, x.v.Color™ and 3D; HDCP—works with sources that support HDCP repeater mode; HDBT certified.
MAXIMUM ANALOG AUDIO LEVELS:	3.1Vpp.
THD:	−75dBu.
SNR:	0.013%.
SUPPORTED WEB BROWSERS:	Windows 7 and higher: Internet Explorer (32/64 bit) version 11, Firefox version 30, Chrome version 35; MAC:Chrome version 35, Firefox version 27, Safari version 7; Android OS: Chrome version 35; iOS:Chrome version 35, Safari version 7.
MAXIMUM TRANSMISSION DISTANCE:	180m (590ft) up to 1080p @60Hz @24bpp in extended mode, 130m (430ft) up to 1080p @60Hz @36bpp in normal mode.
POWER CONSUMPTION:	48V DC, 630mA.
OPERATING TEMPERATURE:	0° to +40°C (32° to 104°F).
STORAGE TEMPERATURE:	−40° to +70°C (−40° to 158°F).
HUMIDITY:	10% to 90%, RHL non−condensing.
COOLING:	Convection.
ENCLOSURE TYPE:	Aluminium.
DIMENSIONS:	18.75cm x 11.5cm x 2.54cm (7.38" x 4.53" x 1.0") W, D, H.
WEIGHT:	0.39kg (0.86lbs) approx.
SHIPPING WEIGHT:	0.68kg (1.5lbs) approx.
ENVIRONMENTAL REGULATORY COMPLIANCE:	Complies with appropriate requirements of RoHs and WEEE.
INCLUDED ACCESSORIES:	Power adapter.
OPTIONS:	Rack adapter RK−T2B.
WARRANTY:	7 years parts and labor.

CONFIGURATIONS

DIP-20BP	Black Front Panel for DIP-20
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