DATASHEET

HDMI HDbitT Matrix Extender Transmitter, max. 120m, over IP













General data

Transmitter unit (TX) for HDMI HDbit over IP matrix.
Together with the receiver, it allows the distribution and switching of the high definition audio / video signal and the standard IGMP switch. Apply advanced HDbitT technology, the supported resolution is up to 4Kx2K @ 30Hz ultra HD. It can also be used in a point-to-point connection, the distance is up to 120 meters. It is widely applied in digital signage advertising, control rooms, command centers, exhibition and entertainment center, security monitoring system, etc.

- **Not compatible with previous versions of the product**

Features
Plug and play
Advanced HDbitT over IP technology
Transmission distance of 120 meters via CAT6

This datasheet was created automatically on 08-11-2026 . Technical changes reserved.

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Resolution supported up to 4Kx2K @ 30Hz ultra HD
Supports scalable and flexible input-output matrix configuration; supports 100 inputs to infinite outputs
Select and change the input of the source device from the receiver by remote control or button
Supports IR pass-back function to control source device from RX position
Supports the computer control software to select and change the input of the source device

Technical specifications
HDMI signal
HDMI1.4, HDCP compatible
28Mbps network bandwidth
Supported HDMI input resolution:
480i @ 60Hz, 480p @ 60Hz, 576i @ 50Hz, 576p @ 50Hz,
720p @ 50 / 60Hz, 1080i @ 50 / 60Hz, 1080p @ 50 / 60Hz,
4Kx2K @ 24/25 / 30Hz
Supported audio format: L / R stereo audio
TMDS signal: 0.7 ~ 1.2Vp-p
DDC signal: 5Vp-p
Remote control supported
IR passback: supports 20 ~ 60KHz IR devices
Matrix configuration: you can connect up to 100 source signals and switch to infinite outputs
Voltage / current: 5V / 2A
Power consumption: TX≤6W
Weight: TX: 320 g
Colour: black

Dimensions
Width: 164 mm
Depth: 107.6 mm
Height: 23.6 mm

Environmental characteristics
Operating temperature: 0 ~ 60 ° C
Storage temperature: -20 ~ 70 ° C
Humidity: 0 ~ 95% (non-condensing)

Certifications
CE
FCC
RoHS
WEEE

Package Contents
1x HDMI Matrix Transmitter
1x Receiver extension cable

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1x Instructions for use
1x DC 5V / 1A power supply

Technical properties	
Max. resolution	4Kx2K@30Hz
Suitable for 19 inch mounting	False
Video Inputs	1xIR
Video interface	1xRJ45, 1xHDMI
Video norm	Colour PAL

Available variants

ArtNr.	Bezeichnung	Number of camera inputs	Number of monitor outputs
IDATA-HDMI-MX683T4	HDMI HDbitT Matrix Extender Transmitter, max. 120m, over IP	1	1

Note on Intended Use

This data sheet is intended solely to describe the technical characteristics of the product. It does not replace an assessment of the product's suitability for a specific application. The user is responsible for ensuring that the product is used in accordance with its technical specifications and applicable legal and regulatory requirements.

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