

LT86121RXE --- Product Brief

HDMI2.0 Repeater with DSC Decoder

Features

HDMI2.0 Receiver

Compliant with HDMI2.0b, HDMI1.4 and DVI1.0
No HDCP2.2 decryption
Data rate up to 6Gbps
Adaptive receiver equalization
AC-couple capable
Optical input capable(single-ended connection to photodiode)
Support channel swap(arbitrarily) and polarity inversion(independent)
Support 4k@60Hz
Supported 3D formats:
DSC disabled: all 3D formats
DSC enabled: frame packing(progressive/interlaced), side-by-side(half/full), top-and-bottom, field alternative
Supported video formats:
DSC/CSC/2ch-to-3ch disabled: all video formats
DSC/CSC/2ch-to-3ch enabled: 24-bit RGB/YCbCr4:4:4, 16/20/24-bit YCbCr4:2:2, 8-bit YCbCr4:2:0
HDR support
Support TMDS descrambling for EMI/RFI reduction
Support SCDC
5V tolerance DDC/HPD I/Os
Integrated EDID shadow
2/3 data channels option(2ch-to-3ch, paired with LT86121TXE)
Integrated DSC decoder(paired with LT86121TXE)
FEC support(paired with LT86121TXE)

HDMI2.0 Transmitter

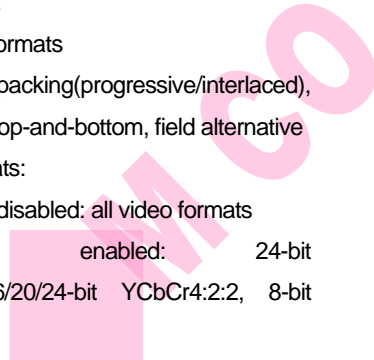
Compliant with HDMI2.0b, HDMI1.4 and DVI1.0
Compliant with HDCP2.2 and HDCP1.4
Data rate up to 6Gbps

On-die back termination

Programmable transmitter swing and pre-emphasis

AC-couple capable

Support channel swap(arbitrarily) and polarity inversion(indepe



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