



GSV2505

1 In to 4 Out HDMI 2.1 24Gbps Splitter with
Embedded MCU

April, 2022

Preliminary Product Specification

1. General Description

1.1 General Information

Gscoolink GSV2505 is a high-performance, low-power 1 In to 4 Out HDMI 2.1 to HDMI 2.1 splitter. By integrating enhanced microcontroller based on RISC-V, GSV2505 has created a cost-effective solution that provides time-to-market advantages. GSV2505's HDMI Receiver and HDMI Transmitter supports up to 24Gbps (FRL, 6G/4Lane). The superior architecture of GSV2505 provides economical smaller footprint solutions using QFN96, targeting applications of Consumer and ProAV.

GSV2505 supports all uncompressed HDMI input video/audio decoding/encoding and DSC stream pass-through to HDMI output. HDCP 1.4 and HDCP 2.2/2.3 are implemented in GSV2505 for both HDMI Input and Output in HDMI 2.0 and FRL mode. HDR-SDR Conversion, Deinterlacer, Downscaler, 444-420 Conversion, Color Space Conversion are supported in HDMI Tx in HDMI 2.0 and FRL mode. Flexible implementations of Audio Insertion, Audio Extraction and SPDIF to I2S conversion are supported in GSV2505. Embedded CEC engine enables flexible remote control of the entire HDMI signal chain.

An internal Video Generator can be used to generate any uncompressed video timing defined in HDMI 2.1, such as 5K@60Hz, 4K@60Hz, 480i@60Hz.

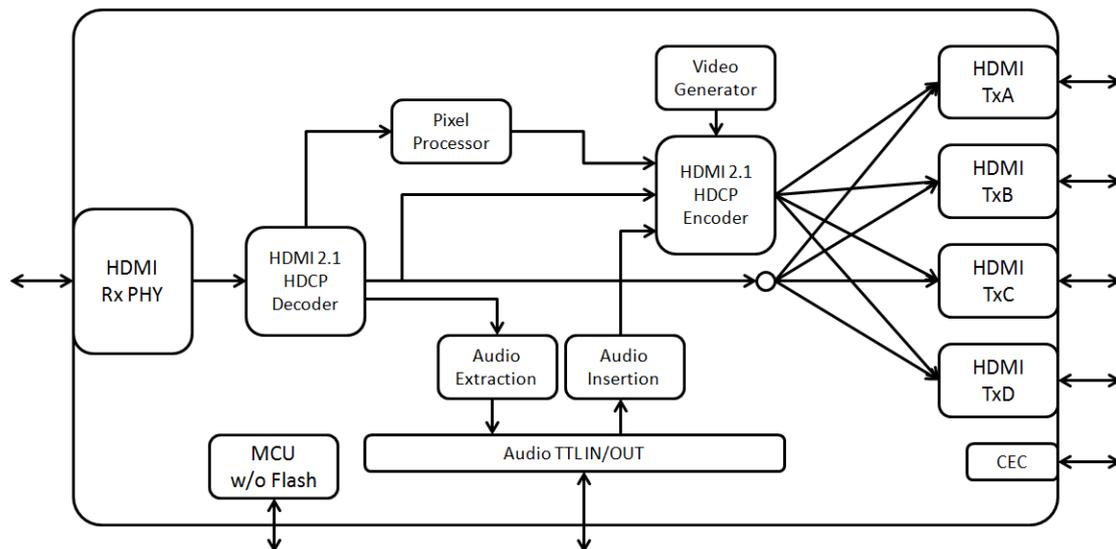


Figure 1. Top Diagram

4. Package Information

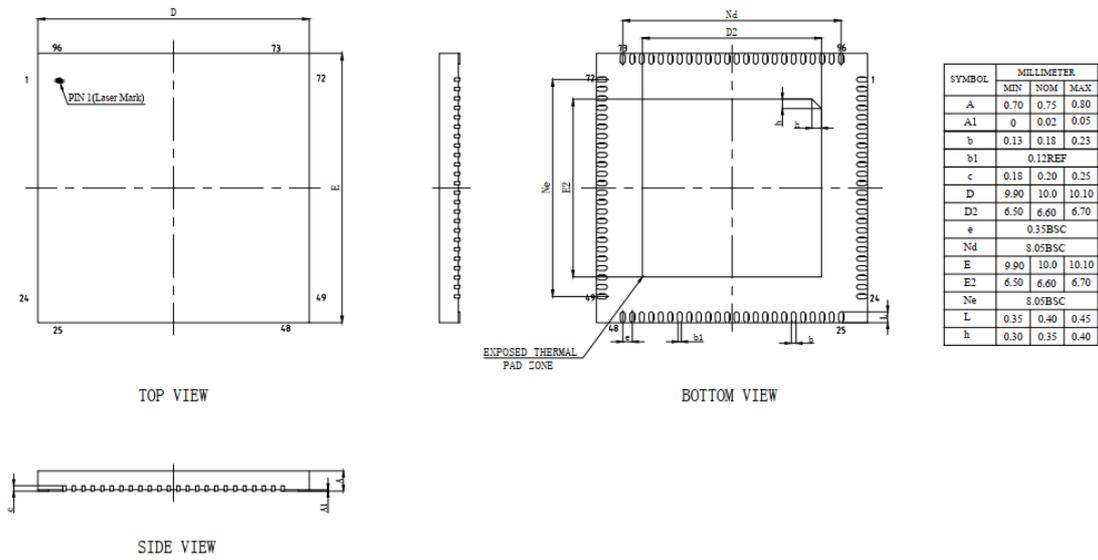


Figure 12. Package Dimensions (QFN96)

5. Ordering Guide

Table 9. Ordering Information

Part Number.	Temperature Range	Package Description	Packing Type
GSV2505	-20°C to +85°C	96QFN	Tray