# HD Signal Converter

## Embedded software: HD matrix input card embedded software V4.40

# TS-9507HS

## Description:

It is used to transform HD or SD HDMI signals into SDI signals. The device integrates an SDI receiver and an HDMI modulator to easily convert HDMI signals into SDI signals.

## Feature:

* Support serial port control or external DIP switch for resolution selection.
* The HDMI input supports HDMI1.3 and is backward compatible with HDMI1.2 and HDMI1.1 versions.
* Support a maximum of 2.97Gbps SDI HD video signal output.
* The input resolution is up to 1920×1080P@60Hz.
* The output resolution is up to 1920×1080P@30Hz.

## Specifications:

| | |
|---|---|
| **Model** | TS-9507HS |
| **HDMI input** | |
| **Communication protocol** | HDMI1.3a, HDCP1.3, EDID1.4 |
| **Pixel bandwidth** | 225MHz, full digital |
| **Interface bandwidth** | 3.25Gbps, full digital |
| **Signal strength** | T.M.D.S. +/- 0.4Vpp |
| **Minimum/maximum level** | T.M.D.S. 2.9V/3.3V |
| **Impedance** | Differential 100Ω |
| **Input resolution** | 800X600@60Hz, 1024X768@60Hz, 1280X720@60Hz, 1280X800@60Hz, 1280X1024@60Hz, 1366X768@60Hz, 1440X900@60Hz, 1600X900@60Hz, 1920X1080p@60Hz |
| **Output** | |
| **Interface** | Female port BNC connector |
| **Gain** | 0db |
| **Lock rate** | Automatic |
| **Operating standard** | SMPTE 292M, SMPTE 259M, SMPTE 242M, ITU-RBT.601 |
| **Input return consumption** | ITU-RBT.1120 |
| | <-14dB @ 1MHz ~ 1.5GHz |
| **Output return consumption** | <-12dB @ 1MHz ~ 1.5GHz |
| **Maximum rate** | 2.97Gbps |
| **Data mode** | 8 or 10bit |
| **I/O level** | 0.80Vp-p+/- 10% |
| **I/O impedance** | 75Ω |
| **Equilibrium type** | Automatic |
| **Maximum input distance** | 100m |
| **Serial port control** | |
| **Interface** | Phoenix connector |
| **level** | RS232 |
| **Baud rate** | 9600bps |
| **Specification** | |
| **Working temperature** | -20˚C～+70˚C |
| **Ambient humidity** | 20%～80% relative humidity, no condensation |
| **Input power** | DC12V 1.5A |
| **Maximum power consumption** | 6W |
| **Dimension** | 163×156×32mm (L×W×H) |