

DESCRIPTION

D70401

HDMI to CSI Add-On for the
RK3399-Q7 Devkit

Document revision:
Issue date:

Release V1.0
May 12th, 2022

1 Introduction

The HDMI to CSI adapter is an add-On for the RK3399-Q7 Devkit. It can be plugged into the "Haikou" Development Board, which is the main component of the Devkit. It enables you to capture HDMI video by converting an incoming HDMI 1.4b stream to a MIPI CSI-2 stream as input for the RK3399-Q7.

For the conversion of HDMI into CSI the adapter uses the Toshiba TC358749XBG HDMI bridge.



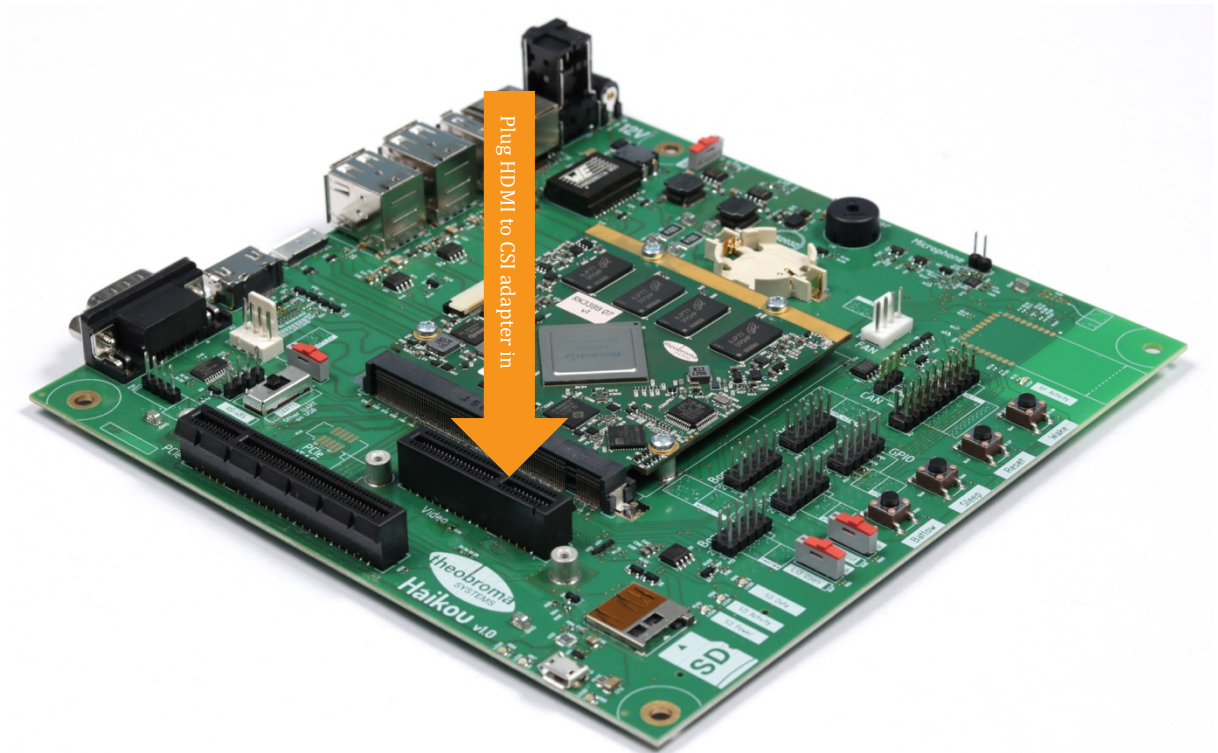
HDMI to CSI adapter ("Peafowl")

1.1 Package Contents

The package contains the HDMI to CSI adapter (see picture above).

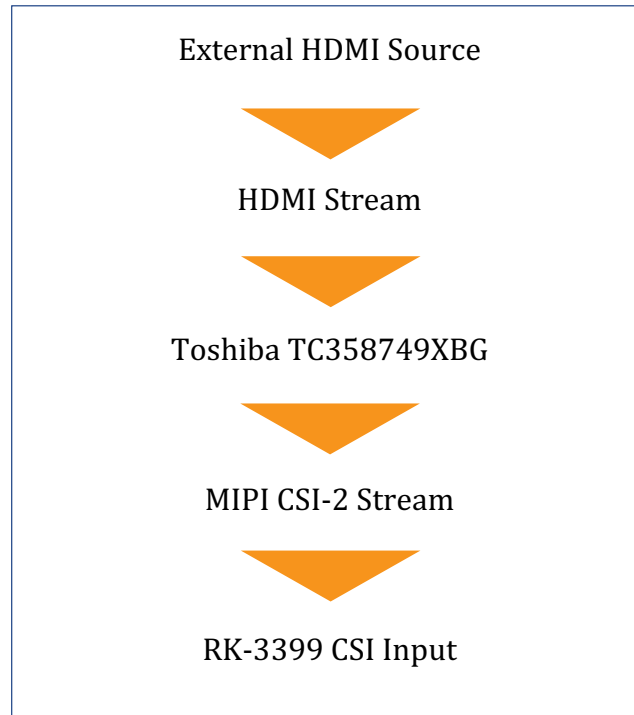
1.2 Mounting Instructions

The HDMI to CSI adapter is plugged into the connector of the "Haikou" Development Board, which looks like a PCIe connector:



1.3 Functionality

The HDMI to CSI adapter provides video stream processing as follows:



1.4 Software

For SW refer to

<https://git.theobroma-systems.com/puma-linux.git/?h=puma-release-4.4.126-2018-04-12-peafowl-v3>

1.5 Features

- Standard HDMI connector for HDMI input
- EDID support for plug-and-play connection to external HDMI sources
- Up to 1920x1080 @ 60 fps
- Connects to the Video Slot on the RK3399-Q7 "Haikou" Development Board

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