

Framos CSI-2 adapter



Overview

Tiny adapter to interface Framos CSI-2 camera modules with Auvideo carrier boards (with voltage and interface conversion).

This tiny adapter allows to connect the Framos CSI-2 camera modules to any Auvideo carrier board with CSI-2 connector. It boosts the supply voltage to the camera module and converts the I2C bus voltage.

To connect the 38512 to the Auvideo carrier board a 22 pin 0.5mm (1:N) FFC cable is required.

Features

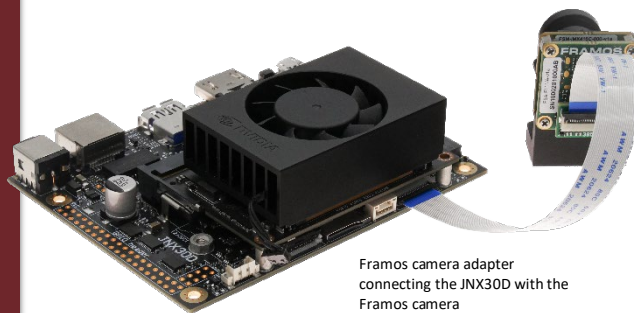
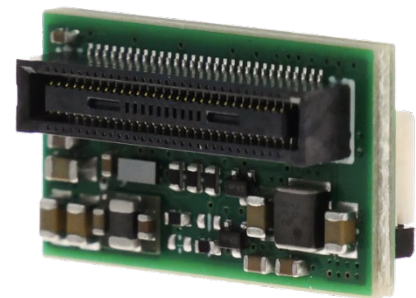
- Small form factor
- Integrated level shifting and supply voltage boost

Technical Specifications

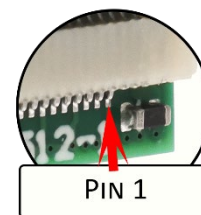
Description	Framos Camera Adapter (38512)
Power	In: 3.3V out: 3.8V
I2C	In: 3.3V out: 1.8V
CSI-2	4 lanes
Compatible CSI-2 cabling	22pin 0.5mm pitch (1:N: contacts on same side, contacts down)
Framos connector	DF40C (60 pin: DF40HC(2.5)-60DS-0.4V)
Adapter size	10mmx17mm(LxW)
Stacking height	2.5mm



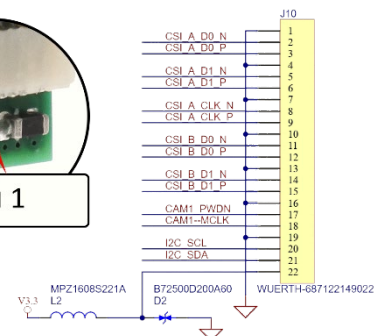
Framos camera adapter front and back view



Framos camera adapter connecting the JNX30D with the Framos camera



PIN 1



Compatible sensor modules

- imx412: FSM-IMX412C + FSA-FT1
- imx415: FSM-IMX415C + FSA-FT11
- imx335: FSM-IMX335M + FSA-FT3
- and more

Software installation

- first install compatible Jetpack
- install Framos driver
- flash Auvideo device tree

Mass deployment

The 38512 adapter is designed for prototyping applications to easily connect any Framos CSI-2 camera to any Auvideo carrier board. For more cost effective production rollouts a different solution is proposed. Most Auvideo carrier boards can be custom configured for 5V supply on the CSI-2 ports and 1.8V I2C level. With this configuration a simple passive adapter can be used. A development of such an adapter is planned.

Resources

Description	Link
3D Model	https://auvideo.eu/step/
Framos driver	Provided with FSM Developer Kit
Auvideo BSP package	https://auvideo.eu/firmware/

Components

SKU	Part
70423	Framos camera adapter (38512)
38423-60	60mm, CSI-2 flex PCB cable
38423-120	120mm, CSI-2 flex PCB cable
42101	50mm, FFC 22pin same side, 0.5mm pitch cable
42102	60mm, FFC 22pin same side, 0.5mm pitch cable
42109	100mm, FFC 22pin same side, 0.5mm pitch cable
42110	150mm, FFC 22pin same side, 0.5mm pitch cable

Compatible cables

Any FFC 22pin same side, 0.5mm pitch cable.

In the components list above are our recommendations.

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