



## IPC/DSER Series

The IPC/DSER boards add the capability to use serialized cameras (over GMSL2) to Syslogic Jetson based embedded products. This enables rapid integration into existing products for a fast time to market.

- up to 8 GMSL2 camera inputs (FAKRA-Z)
- Power-over-Coax (PoC)
- Extended temperature range
- 24/7 continuous operation
- Shock- and vibration resistant



### Product Highlights

Internally powered by Syslogic host system,  
no external power source required for PoC  
Shock- and vibration resistant  
Operating temperature -40°C to +85°C  
Industrial electronics design  
Long term availability

### Product Features

up to 8x GMSL2 camera inputs  
with FAKRA-Z connectors

### Markets / Applications

Agriculture  
Autonomous Mobile Robots (AMRs)  
Automotive  
Transportation  
Robotics  
  
Computer Vision

**Input interfaces**

GMSL2 camera inputs, with Power over Coax (PoC) <sup>2</sup>	(FAKRA-Z)	8
2x/4x/6x GMSL2 camera inputs instead of 8x	(FAKRA-Z)	optional

**Technical Data**

Deserializer chip <sup>2</sup>		MAX9296A
Max. permitted power draw per camera port		3W
Max. permitted cable length to the camera		15 meters
Camera synchronization to Jetson module		GPIO / PWM <sup>3</sup>
Synchronization between cameras <sup>4</sup>		•
Camera triggering supported <sup>5</sup>		•
PoC output voltage (gets power internally from mainboard, no separate power input required for PoC)		12V <sup>+/- 2%</sup>
Dimensions [mm]		w55 x d125
Net weight [gram]		tbd

**Software support**

NVIDIA JetPack (L4T - Linux 4 Tegra, ARM64)		•
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**Environmental Conditions**

Operating temperature ambient (component level) <sup>6</sup>		-40°C to +85°C
Storage temperature		-40°C to +85°C
Ingress protection according to EN60529 <sup>7</sup> (to the housing when used in corresponding IP-rated product, and when connector is mated)		IP67
Conformal coating		on request
Shock: designed to meet EN60068-2-27		•
Vibration: designed to meet EN60068-2-6		•
EMI conformity EN55032/55035		•

<sup>1</sup> Please contact factory for minimum order quantities<sup>2</sup> Recommended serializer chip for cameras: MAX9295A. Make sure that Jetson drivers are available from the camera manufacturer<sup>3</sup> External frame sync with GPIO / PWM or MCLK of Jetson module<sup>4</sup> Internal generated frame sync to cameras (built into the deserializer), multiple deserializers will then be synced via GPIO (Jetson) to time sync all cameras.<sup>5</sup> Trigger via GPIO over GMSL2 backchannel, this must be supported by the camera!<sup>6</sup> Depending on host system, installation situation and interface connection. Please see user documentation.

Product specifications subject to change without notice. | All data is for information purposes only and not guaranteed for legal purposes. Information in this data sheet has been carefully checked and is believed to be accurate. However, no responsibility is assumed for inaccuracies. Please refer to the user documentation for additional product specification.

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