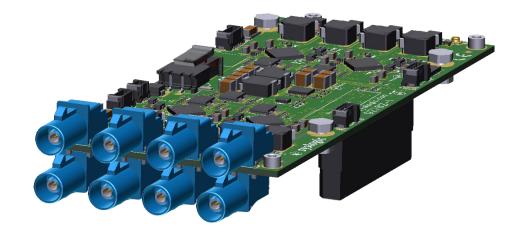
preliminary

Industrial Deserializer Board for Syslogic NVIDIA Jetson based AI computers



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



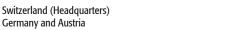
		Order Code	IF G D3GIVI3LLXF-TOTL
Input interfaces			
GMSL2 camera inputs, with Power over Coax (PoC) ²	(FAKRA-Z)		8
2x/4x/6x GMSL2 camera inputs instead of 8x	(FAKRA-Z)		optional
Technical Data			
Deserializer chip ²			MAX9296A
Max. permitted power draw per camera port			3W
Max. permitted cable length to the camera			15 meters
Camera synchronization to Jetson module			GPIO / PWM ³
Synchronization between cameras 4			•
Camera triggering supported 5			•
PoC output voltage (gets power internally from mainboard, no separate power input required for PoC)			12V +/- 2%
Dimensions [mm]			w55 x d125
Net weight [gram]			tbd
Software support			
NVIDIA JetPack (L4T - Linux 4 Tegra, ARM64)			•
Environmental Conditions			
Operating temperature ambient (component level) ⁶			-40°C to +85°C
Storage temperature			-40°C to +85°C
Ingress protection according to EN60529 7			IP67
(to the housing when used in corresponding IP-rated product, and whe	en connector is mated)		
Conformal coating			on request
Shock: designed to meet EN60068-2-27			•
Vibration: designed to meet EN60068-2-6			•
EMI conformity EN55032/55035			•

¹ Please contact factory for minimum order quantities

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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² Recommended serializer chip for cameras: MAX9295A. Make sure that Jetson drivers are available from the camera manufacturer

³ External frame sync with GPIO / PWM or MCLK of Jetson module

Internal generated frame sync to cameras (built into the deserializer), multiple deserializers will then be synced via GPIO (Jetson) to time sync all cameras.

⁵ Trigger via GPIO over GMSL2 backchannel, this must be supported by the camera!

⁶ Depending on host system, installation situation and interface connection. Please see user documentation.