

USB3.2-Portable Type

Image Verification & Development Support Equipment

Camera inspection
Parallel
MIPI-CSI-2
MIPI-DSI
Jig

Vehicle Digital
Video Interface
FPDLink III
GMSL2
GVIF2
A-PHY

Multi Interface
USB3.2
Display Port
HDMI
SDI LAN

SV series

NetVision Co., Ltd.



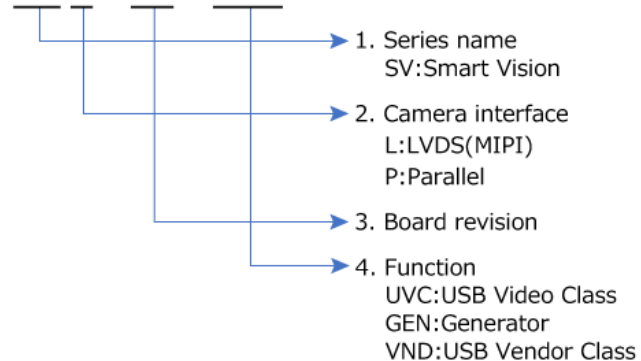
Table of Contents



- NetVision Company Profile
- SV series Portfolio
- Monitoring Board
- Generator Board
- Vendor Class Board
- FPDlink III Interface Board
- GMSL Interface Board
- GVIF2 Interface Board
- GW5 Board
- SV series Product List

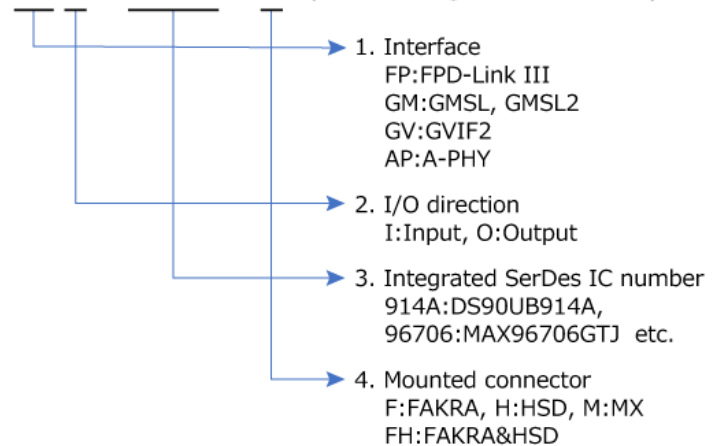
SV series board type number rule

SV L - 03 - UVC (Manufacturing number:SVL-03)



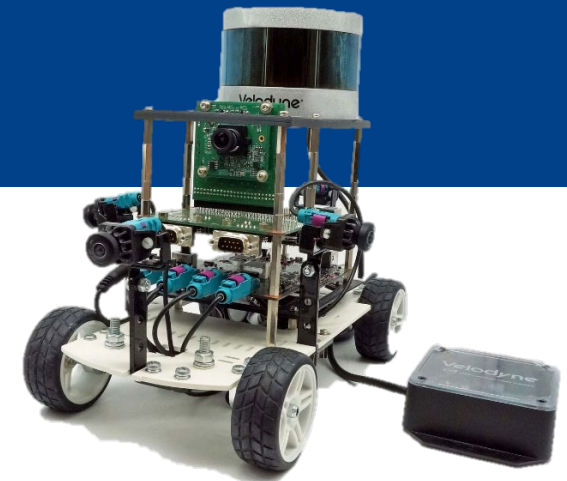
SerDes board type number rule

FP I - 914A - F (Manufacturing number:NV012-C)



Company Profile

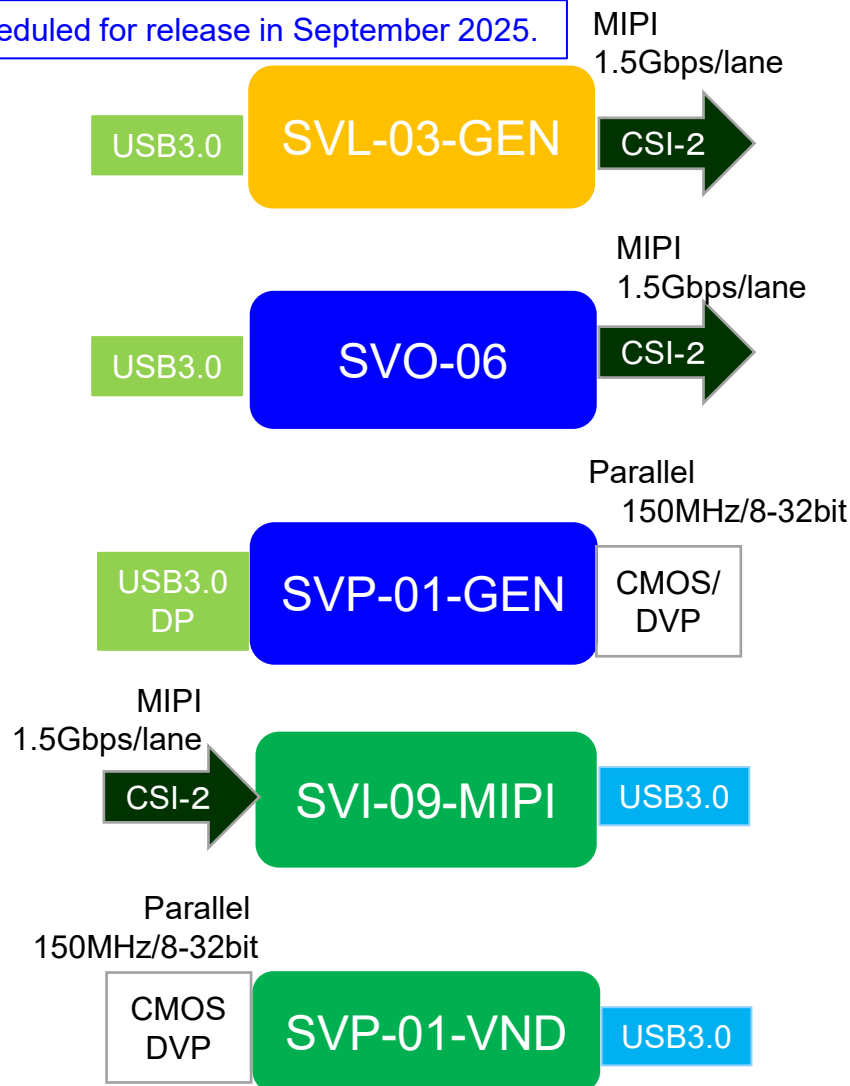
- Location: 3-8-6 Kanda Kajicho, Chiyoda-ku, Tokyo
- Established: March 6, 2001
- Capital: 60 million yen
- Corporate philosophy: **We develop world-class products in niche areas.**
 - All our products are developed in-house, which are FPGAs, software, and firmware.
- Representative Director: Hiroshi Kokufu
- Employees: 14 URL: <https://www.net-vision.co.jp/sv-english/index.html>
- Business field: Manufacture and sale of electronic products
- In-house product: Image inspection device SV series
- Main customers (Titles omitted)
 - Aisin, Panasonic, Denso Ten, HONDA, Sony, Denso, Faurecia Clarion, Mitsubishi Electric, TOYOTA, Sharp, Nissan, SMK etc.



SV series Portfolio

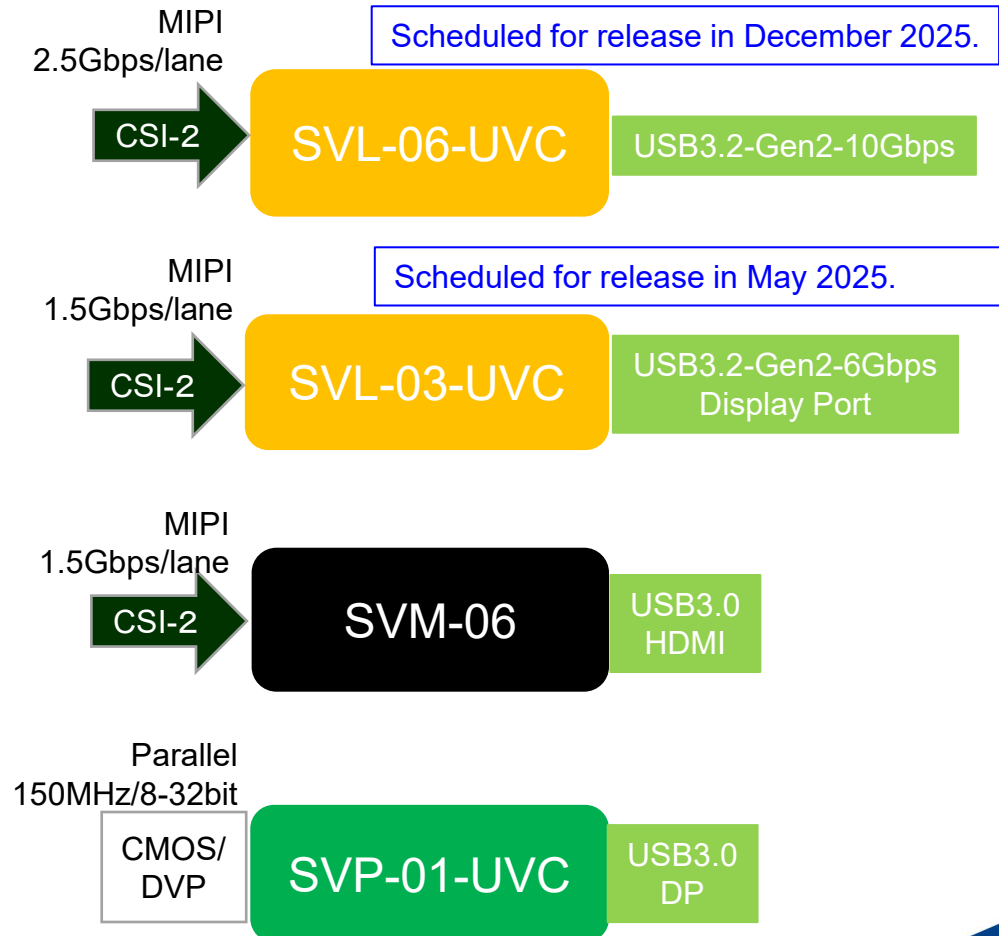
Vendor class driver/USB

Scheduled for release in September 2025.



UVC driver/USB

Scheduled for release in December 2025.



Monitoring Board

2013
SVM-03/HDMI
Parallel

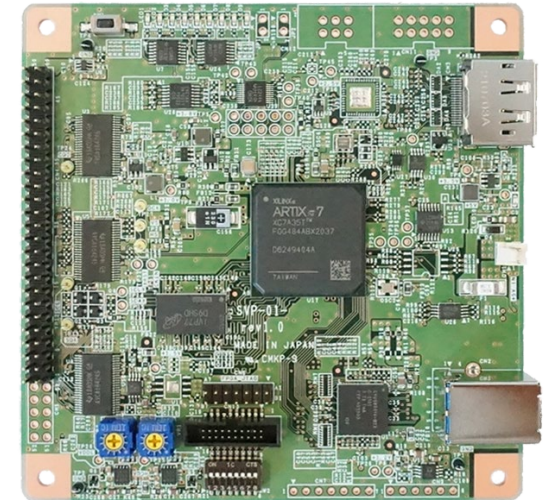
2017
SVM-MIPI
1Gbps/lane

2025
SVL-03
MIPI-TBD

Monitoring board is a device for displaying and recording CMOS sensor and in-vehicle camera images. Two types are available: parallel and MIPI.

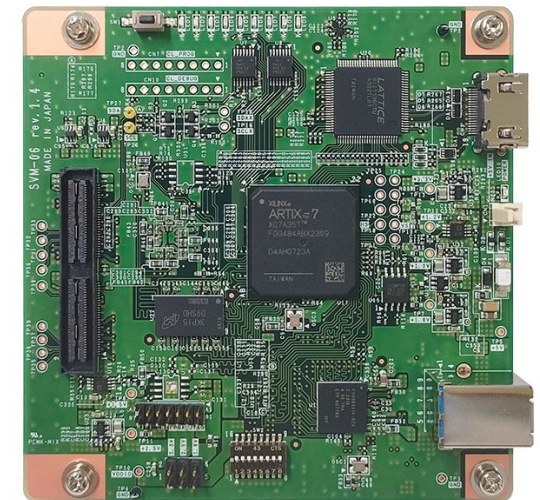
- **Parallel Monitoring Board SVP-01-UVC**

- Input: Parallel
 - YUV422 8bit, 16bit RAW 8, 10, 12, 16 RGB24
- Output: USB3.0(AVI) or DisplayPort



- **MIPI Monitoring Board SVM-06**

- Input: MIPI CSI-2 or DSI
 - YUV422 8bit RAW 8, 10, 12, 16, 20 RGB24
 - MIPI CSI-2 1~4 Lane, 1.5Gbps / lane
 - Effective pixel data rates: Up to 6.0Gbps
 - Clock rates: 10MHz to 750MHz
- Output: USB3.0(AVI) and HDMI



Generator Board

2014
SVO-03/USB3.0
Parallel

2018
SVO-03-MIPI
MIPI

2024
SVO-06
MIPI-TBD

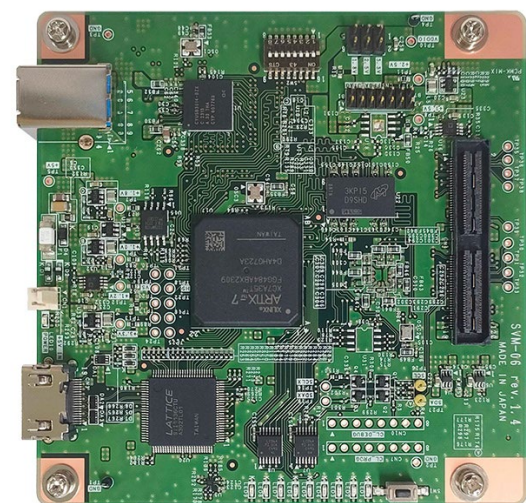
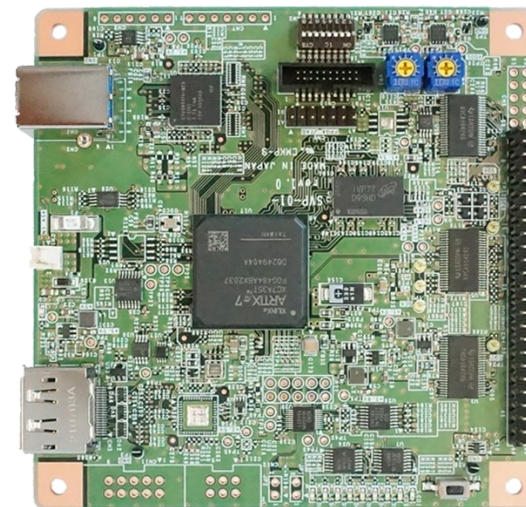
Generator board is a device that reproduces recorded images and CG images as real images. Two types are available: parallel and MIPI.

- **Parallel Generator SVP-01-GEN**

- Input: USB3.0 (AVI / FRM) or DisplayPort
- Output: Parallel
 - YUV422 8bit, 16bit RAW 8, 10, 12 RGB24

- **MIPI Generator SVO-06**

- Input: USB3.0 (AVI / FRM)
- Output: MIPI CSI-2 or DSI
 - YUV422 8bit RAW 10, 12, 20 RGB24
- MIPI CSI-2 1~4 Lane, 1.5Gbps / lane
 - Effective pixel data rates: Up to 6.0Gbps
 - Clock rates: 10MHz to 750MHz



Vendor Class Board

2004
SVI-01/USB2.0
Parallel

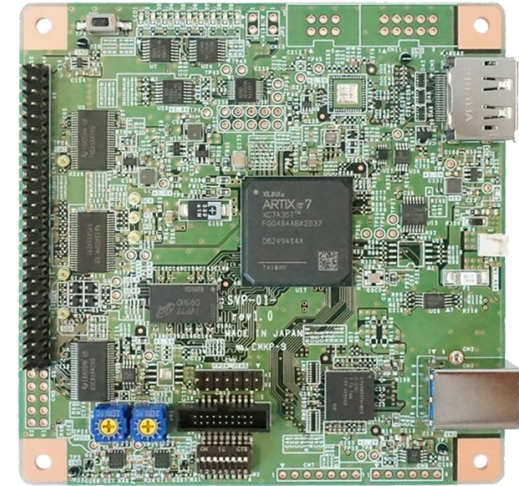
2018
SVI-09/USB3.0
Parallel&LVDS

2025
SVI-10/USB3.2
Parallel

Vendor class board is a device for displaying and recording CMOS sensor and in-vehicle camera images. It can be used with vendor drivers and is ideal for camera inspection. The MIPI version includes the [MIPI video analyzer](#).

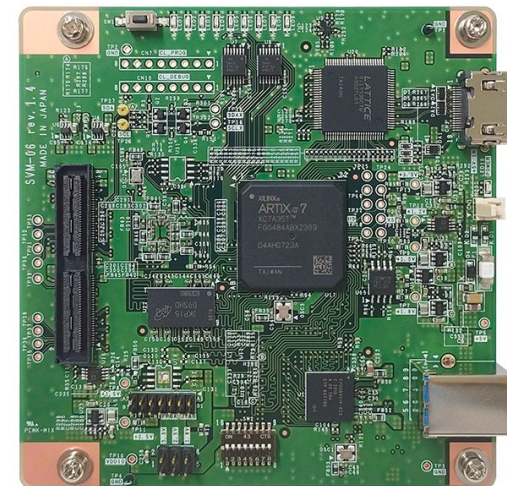
- **Parallel Recorder SVP-01-VND**

- Input: Parallel
 - YUV422 8bit, 16bit RAW 8, 10, 12 RGB24
- Output: USB3.0 (FRM)
 - PC driver: Vendor class



- **MIPI Recorder SVI-09-MIPI**

- Input: MIPI CSI-2 or DSI
 - YUV422 8bit RAW 8, 10, 12, 16
 - MIPI CSI-2 1~4 Lane, 1.5Gbps / lane
 - Effective pixel data rates: Up to 6.0Gbps
 - Clock rates: 10MHz to 750MHz
- Output: USB3.0 (FRM)
 - PC driver: Vendor class

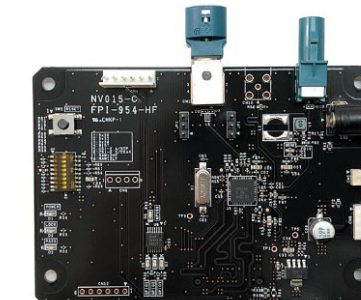
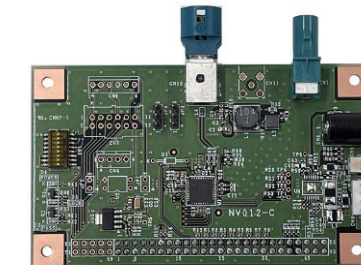
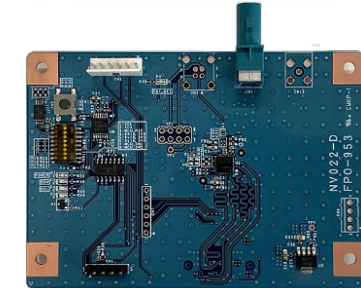
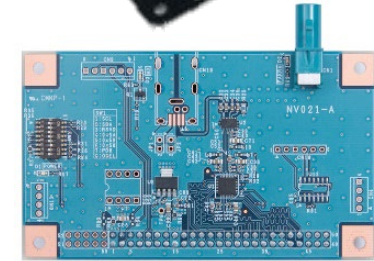


FPDlinkIII Interface Board

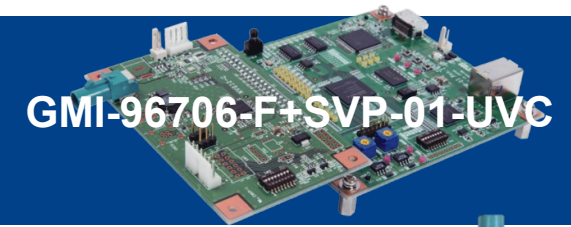


FPO and FPI series products conform to the FPDLink III standard of TI's in-vehicle camera transmission standard. These boards are used in connection with the SV series.

- **Serializer board** (Minimum order quantity: 10set)
 - DS90UB913A board FPO-913A-F
 - Compatible SV board: SVP-01-GEN
 - Compatible connector: FAKRA
 - DS90UB953 board FPO-953-F
 - Compatible SV board: SVO-06
 - Compatible connector: FAKRA
- **Deserializer board** (Minimum order quantity: 10set)
 - DS90UB914A board FPI-914A-FH
 - Compatible SV board: SVP-01-UVC, SVP-01-VND
 - Compatible connector: FAKRA & HSD
 - DS90UB954 board FPI-954-HF
 - Compatible SV board: SVM-06
 - Compatible connector: HSD & FAKRA

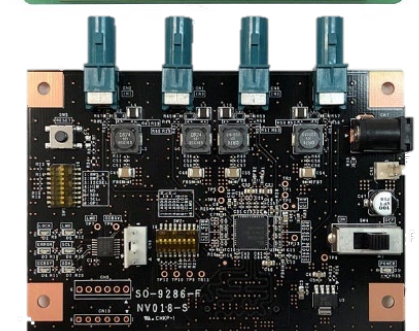
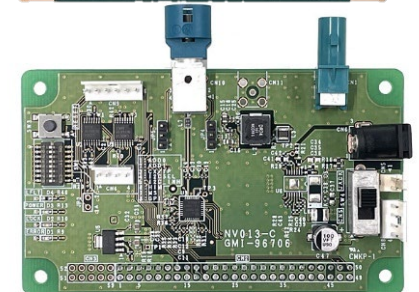
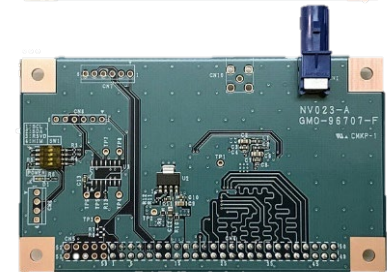
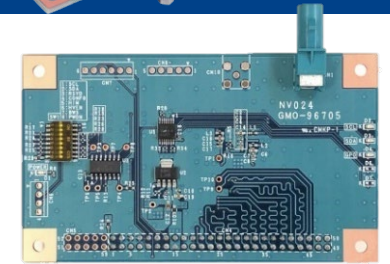


GMSL Interface Board

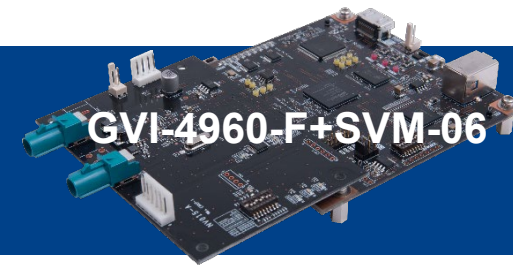


GMO and GMI series are products that meet the GMSL standard for Analog Devices' s (formerly MAXIM) in-vehicle camera transmission standard. These boards are used in connection with the SV series.

- **Serializer board (Minimum order quantity: 10set)**
 - MAX96705 board GMO-96705-F
 - Compatible SV board: SVP-01-GEN
 - Compatible connector: FAKRA
 - MAX96707 board GMO-96707-F
 - Compatible SV board: SVP-01-GEN
 - Compatible connector: FAKRA
- **Deserializer board (Minimum order quantity: 10set)**
 - MAX96706 board GMI-96706-FH
 - Compatible SV board: SVP-01-UVC, SVP-01-VND
 - Compatible connector: FAKRA & HSD
 - MAX9286 board GMI-9286-F
 - Compatible SV board: SVM-06
 - Compatible connector: FAKRA

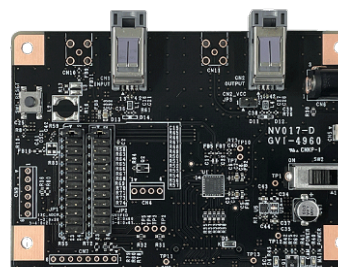
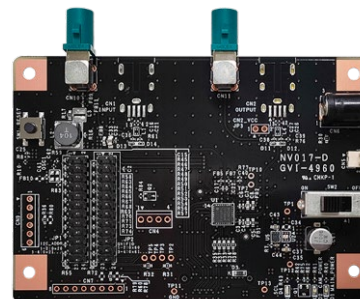
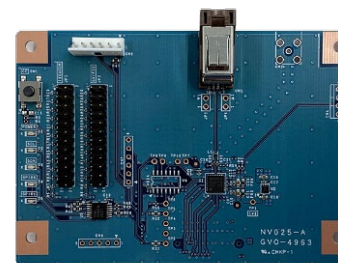
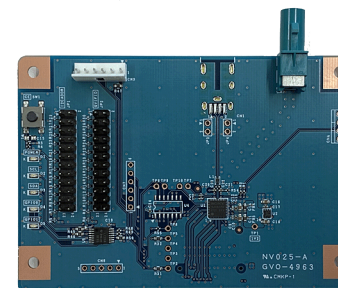


GVIF2 Interface Board



GVO and GVI series are products that meet the GVIF2 standard for Sony's in-vehicle camera transmission standard. These boards are used in connection with the SV series.

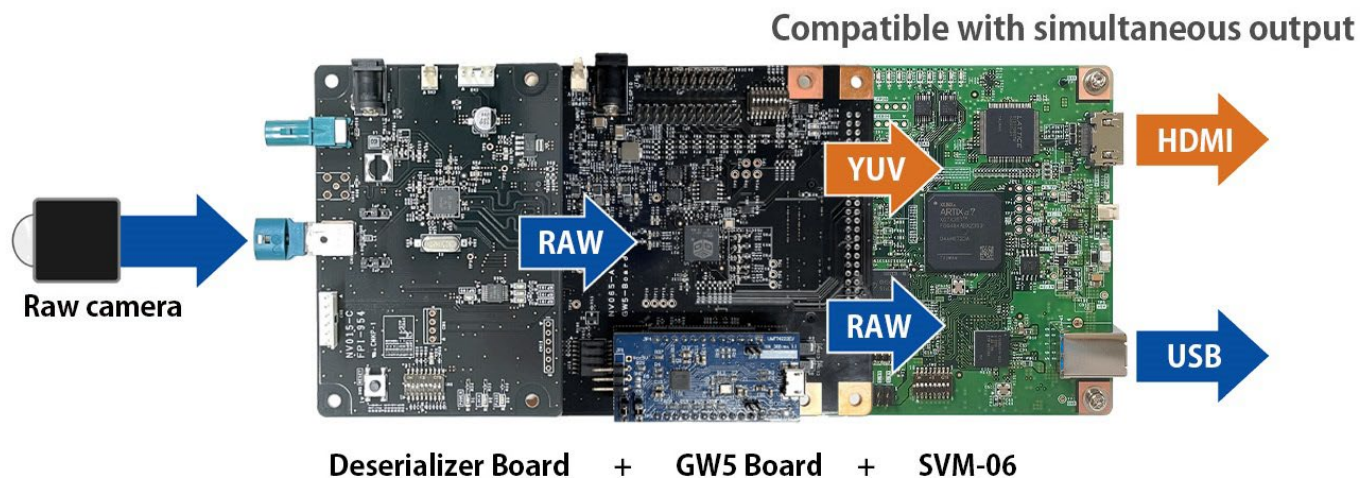
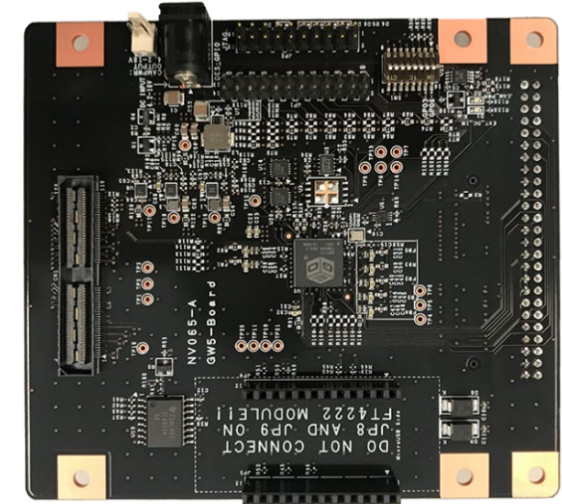
- **Serializer board** (Minimum order quantity: 10set)
 - CXD4963 board GVO-4963-F
 - Compatible SV board: SVO-06
 - Compatible connector: FAKRA
 - CXD4963 board GVO-4963-M
 - Compatible SV board: SVO-06
 - Compatible connector: MX
- **Deserializer board** (Minimum order quantity: 10set)
 - CXD4960 board GVI-4960-F
 - Compatible SV board: SVM-06
 - Compatible connector: FAKRA
 - CXD4960 board GVI-4960-M
 - Compatible SV board: SVM-06
 - Compatible connector: MX



GW5 Board

The GW5 Board is a board equipped with the indie(GEO) GW5 series ISP. This board supports image processing such as innovative High Dynamic Range (HDR) image processing, lens distortion correction and RAW to YUV conversion.

The GW5 has two MIPI CSI-2 interface. By using with our deserializer boards, this board supports video input with automotive SerDes standards such as FPD-Link III, GMSL and GVIF2.



- MIPI CSI-2 input/output and Parallel output are supported.
- Virtual Channel is supported.
- ISP setting and FW update from indie's genuine tools are supported.

SV series Product List

※ Domestic price, Tax-excluded

- Parallel Monitoring Board: SVP-01-UVC: @ 168,000 yen
- MIPI Monitoring Board: SVM-06: @ 198,000 yen
- Parallel Generator: SVP-01-GEN: @ 198,000 yen
- MIPI Generator: SVO-06: @ 198,000 yen
- Parallel Recorder: SVP-01-VND: @ 168,000 yen
- SerDes Boards (Minimum order quantity: 10set)
 - Serializer board FPDLink,GMSL,GVIF etc. :@92,000yen ~
 - Deserializer board FPDLink,GMSL,GVIF etc. :@69,000yen ~
- SDK: Software Development Kit: @ 298,000 yen / Site license
 - UVC: Windows, Vendor class: Windows



SerDes board + SV board