

Camera inspection
 Parallel MIPI-CSI-2 Jig

SerDes
 FPDLinkIII GMSL GVIF2

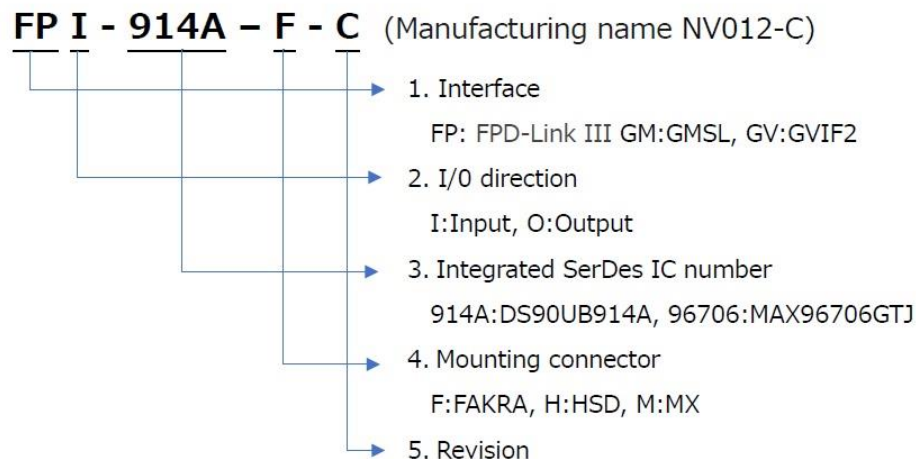
Multi Interface
 USB3.0 HDMI CAN/LiDAR

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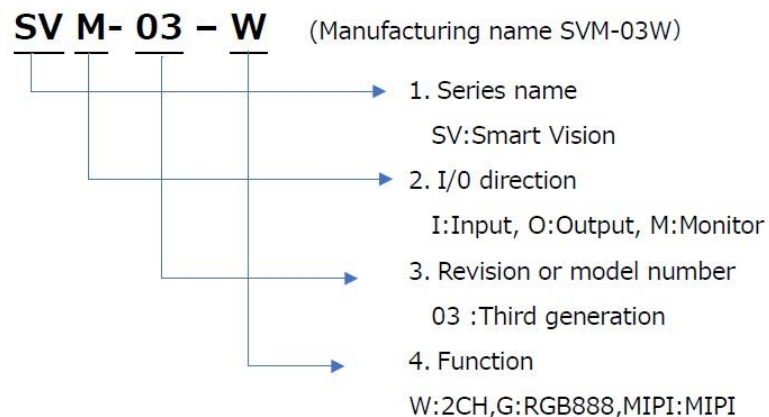


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SerDes board type number rule



SV series board type number rule



COMPANY PROFILE

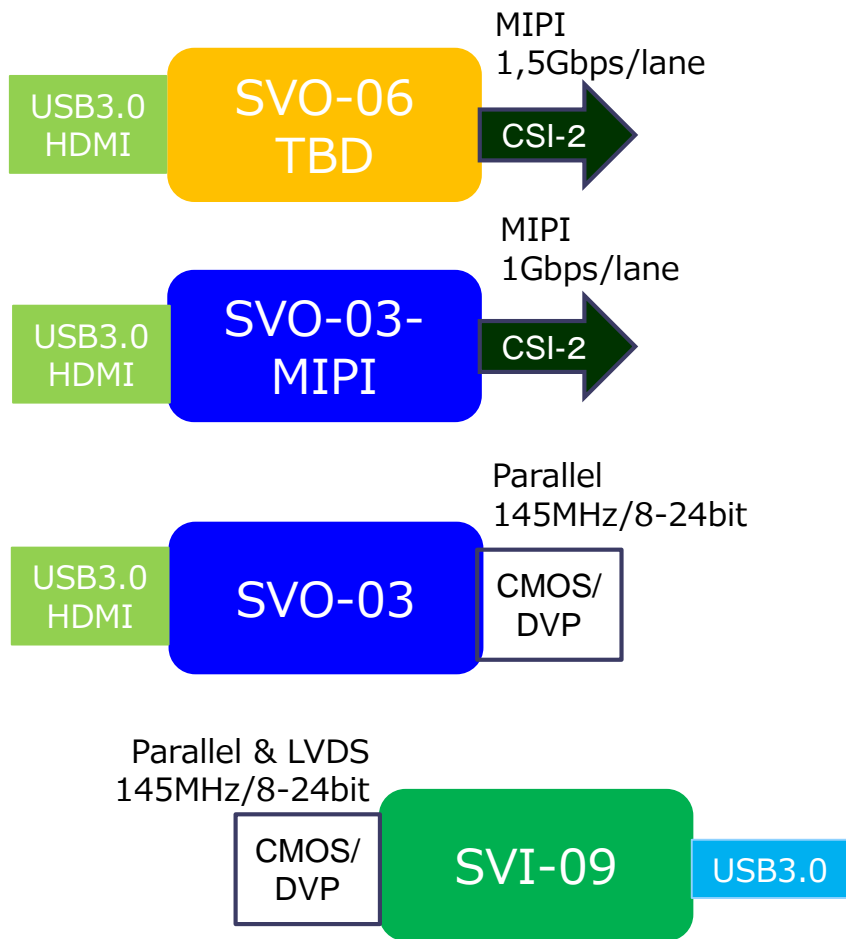


- Location: 3-8-6 Kanda Kajicho, Chiyoda-ku, Tokyo
- Established: March 6, 2001
- Capital: 10 million yen
- Corporate philosophy: **In niche areas, we will propose products that aim to be the best in the world.**
 - We have established a system that allows us to develop and produce products consistently from board to FPGA, software and firmware.
- Representative Director: Hiroshi Kokufu
- Employees: 12 URL: <https://www.net-vision.co.jp/>
- Business field: Manufacture and sale of electronic products
- In-house product: Image inspection SV series
- Main customers
 - Panasonic, Sony, Denso, Kyocera, Aisin Seiki, Clarion , Mitsubishi Electric, SMK , Toyota Motor, SUBARU,Sharp etc.

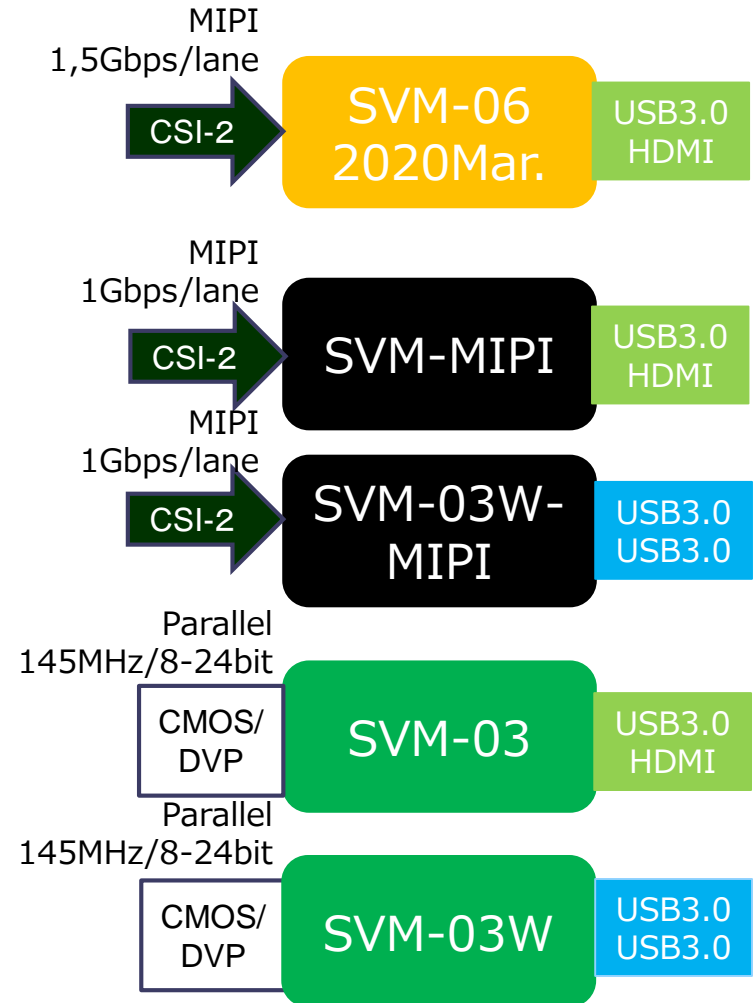


SV SERIES PORTFOLIO

Vendor Class driver/USB



UVC driver/USB



SVM SERIES

2007
SVM-01/VGA
Parallel

2013
SVM-03/HDMI
Parallel

2017
SVM-MIPI
1Gbps/lane

2020
SVM-06 TBD
1.5Gbps/lane

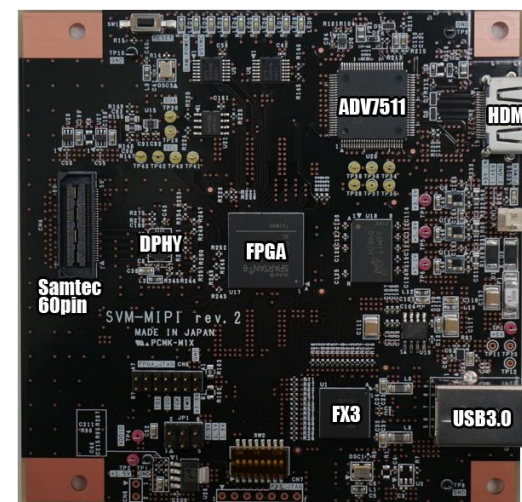
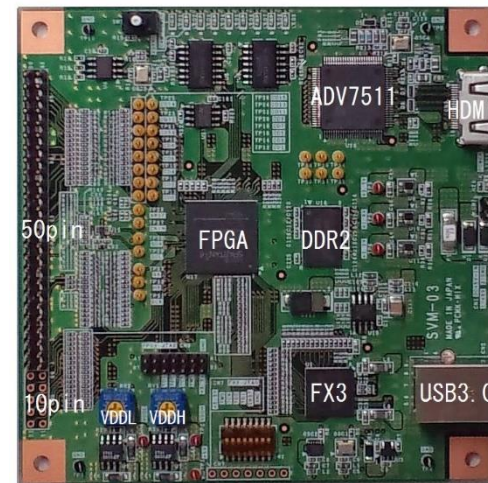
SVM series is a device for displaying and recording CMOS sensor and in-vehicle camera images. Two types are available: parallel and MIPI.

Parallel monitor board SVM-03

- Input: Parallel
 - YUV-8 & 16, RAW-10 & 12, RGB-8 & 24
- Output: PC (AVI & FRM) or HDMI

MIPI monitor board SVM-MIPI

- Input: MIPI
 - YUV-8, RAW-8 & 10 & 12 & 20, RGB-24
 - Output standard: MIPI CSI-2 video signal (1 to 4 Lanes)
 - Supports up to 4 Lanes at 1Gbps
 - CSI-2 Clock Rates From 100MHz to 500MHz
 - Effective pixel data rate: up to 2.4Gbps
- Output: PC (AVI & FRM) or HDMI



SVO SERIES

2006
SVO-01/USB2.0
Parallel

2014
SVO-03/USB3.0
Parallel

2018
SVO-03-MIPI
MIPI

2020
SVO-06
MIPI-TBD

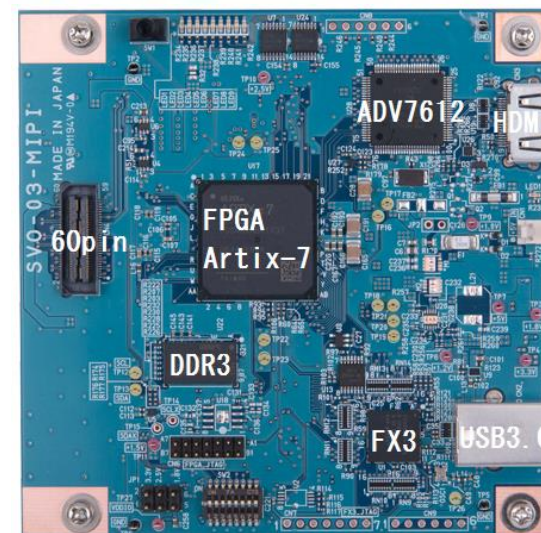
SVO series is a device that reproduces recorded images and **CG images** as real images. Two types are available: parallel and MIPI.

Parallel generator SVO-03

- Input: PC (AVI & FRM) or HDMI
- Output: Parallel
 - YUV-8 & 16, RAW-10 & 12, RGB-24

MIPI generator SVO-03-MIPI

- Input: PC (AVI & FRM) or HDMI
- Output: MIPI
 - YUV-8, RAW-10 & 12 & 20, RGB-24
 - Output standard: MIPI CSI-2 video signal (1 to 4 Lanes)
 - Supports up to 4 Lanes at 1Gbps
 - CSI-2 Clock Rates From 100MHz to 500MHz
 - Effective pixel data rate: up to 2.4Gbps



SVI SERIES

2004
SVI-01/USB2.0
Parallel

2011
SVI-06/USB3.0
Parallel

2018
SVI-09/USB3.0
Parallel&LVDS

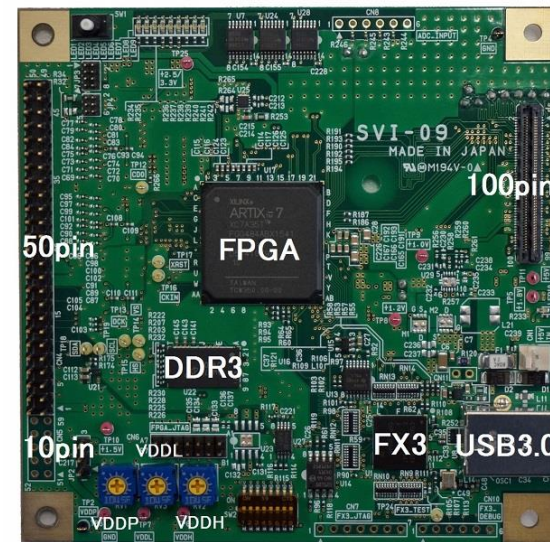
SVI series, CMOS sensor, display an on-board camera image, it is a device for recording. It uses a frame memory and is ideal for camera inspection.

Parallel recorder SVI-09

- Input: Parallel (60-pin header)
 - YUV-8 & 16, RAW-10 & 12, RGB-8 & 24
- Input: LVDS (100 pin connector)
 - Directly connected to FPGA
- Output: PC (AVI & FRM)
- PC driver: Vendor class and UVC
 - Both modes have a frame memory use mode
- Contract development results
 - MIPI & Parallel sensor 2CH input, image conversion (size, format, etc.), 2CH-Parallel sensor emulation

LAN (UDP) connection board: LAN-IF

- Uses 100-pin LVDS connector



SVI-09



LAN-IF board

FPDLINK III 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)

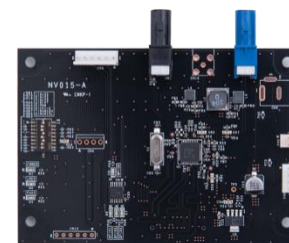
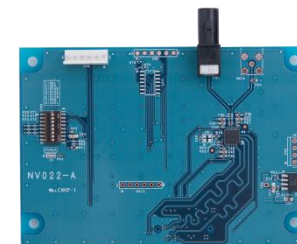
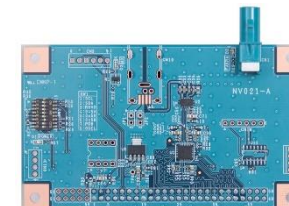
- DS90UB913A board FPO-913A-F (NV-021)
 - Compatible SV board: SVO-03
 - Compatible connector: FAKRA (HSD & MX connector on order)
- DS90UB953 board FPO-953-F (NV-022)
 - Compatible SV board: SVO-03-MIPI
 - Compatible connector: FAKRA (HSD & MX connector on order)

Deserializer board (Minimum order quantity: 10set)

- DS90UB914A board FPI-914A-F (NV-012)
 - Compatible SV board: SVM-03, SVI-09
 - Compatible connector: FAKRA (HSD & MX connector on order)
- DS90UB954 board FPI-954-F (NV-015)
 - Compatible SV board: SVM-MIPI
 - Compatible connector: FAKRA (HSD & MX connector on order)



FPI-954-F+SVM-MIPI



GMSL INTERFACE BOARD

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

Serializer board (Minimum order quantity: 10set)

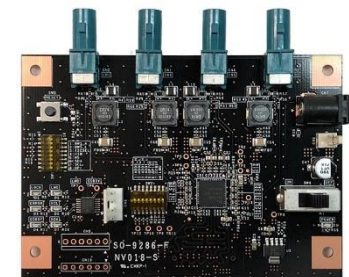
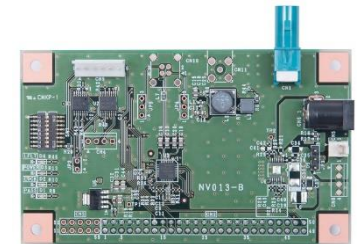
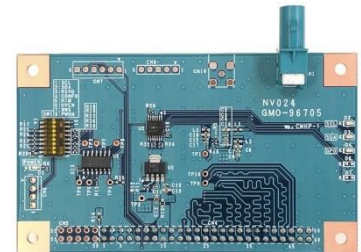
- MAX96705 board GMO-96705-F (NV-024)
 - Compatible SV board: SVO-03
 - Compatible connector: FAKRA (HSD & MX connector on order)
- MAX96707 board GMO-96707-F (NV-023)
 - Compatible SV board: SVO-03
 - Compatible connector: FAKRA (HSD & MX connector on order)

Deserializer board (Minimum order quantity: 10set)

- MAX96706 board GMI-96706-F (NV-013)
 - Compatible SV board: SVM-03, SVI-09
 - Compatible connector: FAKRA (HSD & MX connector on order)
- MAX9286 board GMI-9286-F (NV-018)
 - Compatible SV board: SVM-MIPI
 - Compatible connector: FAKRA (HSD & MX connector on order)



GMI-96706-F+SVM-03



SV SERIES PRODUCT LIST

- Monitor board: SVM-03: @ 125,000 yen
 - Main board-128MB memory with soft CD
- MIPI monitor board: SVM-MIPI: @ 198,000 yen
 - Main board-128MB memory with soft CD
- Parallel generator: SVO-03: @ 168,000 yen
 - Main board-128MB memory with soft CD
- MIPI generator: SVO-03-MIPI: @ 198,000 yen
 - Main board-128MB memory with soft CD
- Parallel recorder: SVI-09: @ 198,000 yen
 - Main board-256MB memory, soft CD
- SerDes boards(Minimum order quantity: 10set)
 - DS90UB913A board FPO-913A-F :@46,000yen
 - DS90UB953 board FPO-953-F :@46,000yen
 - DS90UB914A board FPI-914A-F :@46,000yen
 - DS90UB954 board FPI-954-F :@46,000yen
 - MAX96706 board GMI-96706-F :@46,000yen
 - MAX9286 board GMI-9286-F :@69,000yen
- SDK: Software Development Kit: @ 298,000 yen / site license
 - Vendor for a class: Windows, for UVC: Windows & Linux