

CAPTURE MODULE SERDES GMSL2/3

UNLOCK REAL TIME AND LOSSLESS DATA VALIDATION
FOR ADAS & AUTONOMOUS DRIVING



ONE DEVICE – MULTIPLE USE CASES

In Vehicle High Speed Data Logging

Capture raw, uncompressed, high resolution sensor streams at 40 Gbps from up to four GMSL2/3 links while forwarding data to the ECU with near zero latency.

Sensor Testing & Frame Grabber Mode

Bring up, validate, and debug camera sensors directly on a PC – without an ECU in the loop

ECU HIL / Simulation & Video Injection

Replay or inject high resolution video into ECUs to validate perception software earlier in development.

BUILT FOR REAL WORLD VALIDATION

Zero Data Loss. Zero Bottlenecks.

A dual-output deserializer creates a **hardware loop path**, directly forwarding video from a camera to the ECU while simultaneously capturing it – ensuring clean, low-latency, corruption-free logging.

Open Ecosystem. No Vendor Lock In.

Decode and process with **GStreamer** thanks to our dedicated plugin and other PC-side tools – eliminating dependency on expensive proprietary software.

Lossless Compression – Up to 50% Savings

Our unique **dynamic lossless JPEG engine** continuously optimizes how the compression is applied to each frame, optimizing the compression ratio even under dynamic lighting conditions.

Engineered for Harsh Automotive Conditions

Rugged anodized aluminum housing + galvanic isolation ensure stable, noise free operation across real-world vehicle environments.

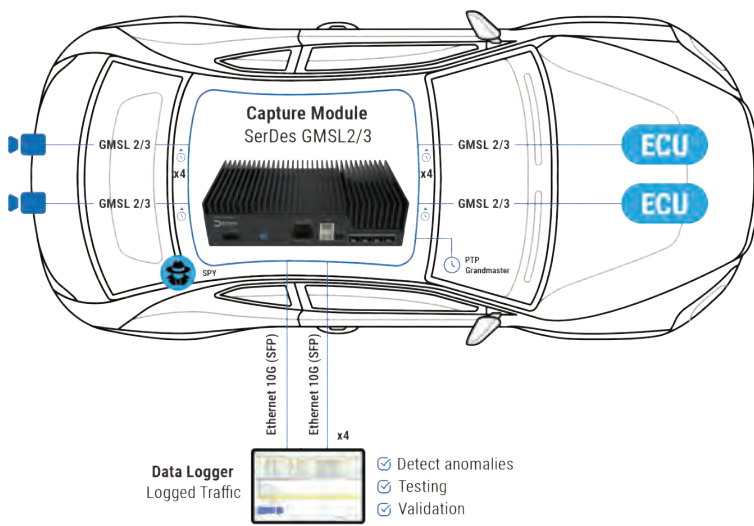
DESIGNED FOR EXTREME DATA DEMANDS



AD and ADAS systems demand more sensors, bigger frames, and lower latency than ever – and the **Capture Module SerDes** is engineered to keep pace. With support for raw, uncompressed video, it captures the data required for training modern perception systems without compromise.

ADVANCED FEATURES

- 4x GMSL2/3 link (8 ports)
- Easy configuration via **web-based UI**
- Network Time Synchronization (i.e. **gPTP**)
- **Lossless JPEG Compression**
- Hardware **Timestamping**
- **Wake-up** capable
- High voltage range: 6 to 30 volt DC (Typically 12V)
- **Galvanic Isolated** DC/DC
- Heatsink integrated on case
- Size: 240mm x 131mm x 50mm
- Quad mini coax connector for 4 camera GMSL2/3 links (**MAX96793** Serializer)
- Quad mini coax connector for 4 ECU GMSL2/3 links (**MAX96792A** Deserializer)



APPLICATIONS

- ADAS camera development
- Autonomous perception stack training
- In vehicle AI data acquisition
- Sensor validation labs
- ECU HIL & simulation test benches

Capture, compress, and validate High-Speed sensor data – without bottlenecks, complexity or compromise.

Book your personalized demo today and see how the Capture Module SerDes transforms your ADAS and AD validation workflows.



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