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REPLAY HIL



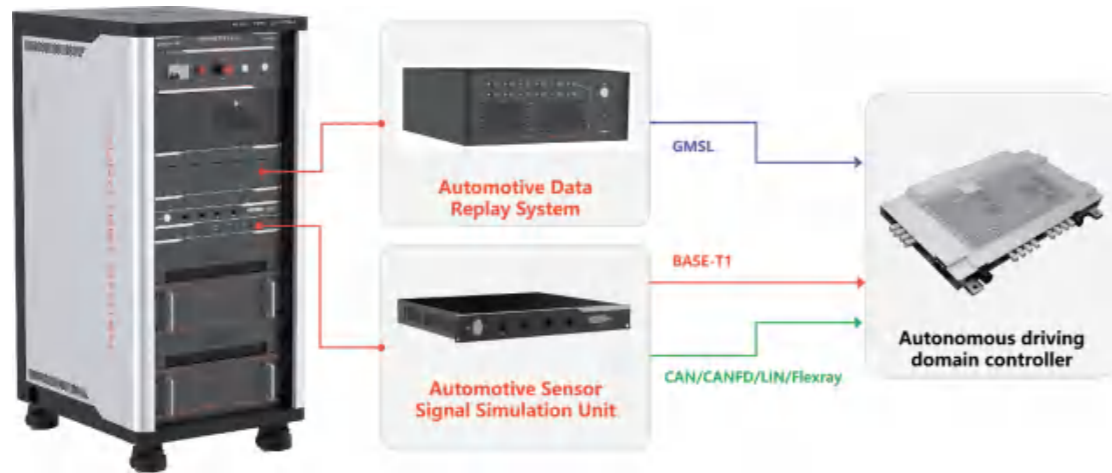
REPLAY HIL

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AUTOMOTIVE SENSOR DATA REPLAY

The REPLAY HIL provides a solution to realize the raw data replay of high-order autonomous driving sensors in the laboratory environment. It can easily realize the repetition of specific scenes and environments, greatly improving the R&D and testing efficiency of the perception algorithm. The solution can be applied to DMS/OMS testing, and support fault injection to evaluate system robustness and capability under abnormal conditions.

DATA FLOW OF REPLAY HIL



ADRS -AUTOMOTIVE DATA REPLAY SYSTEM

- Forwarding video content to camera serialized link (e.g. GMSL1/2, FPDLINK, etc.)
- Supports serial data output for connecting ECU tested parts
- Supports serializer model customization
- Supports custom I2C handshake protocol
- Single channel resolution up to 8M pixels 30 frames
- Supports RAW/YUV and other types of video injection formats
- Supports MIPI/DVP protocol
- Synchronization accuracy of each channel is 1ms



ASSU - AUTOMOTIVE SENSOR SIGNAL SIMULATION UNIT

Road acquisition data injection and collection



Hardware Channel Overview

- 8-Channel CAN/CANFD
- 8-Channel LIN
- 1-Channel FlexRay
- 4-Channel vehicle Ethernet conversion channel

Functions

- Bus
 - CAN/CANFD protocol supports: ISO 11898-1, ISO 11898-5, ISO 11898-6, ISO11898-2 for high-speed CAN
 - CAN/CANFD baud rate can be configured
 - CAN supports baud rate range: 40kBd~ 1MBd
 - CANFD supports baud rate range: 40kBd~ 5MBd
 - Supports DBC file import and parsing.
 - LIN protocol supports: 1.3, 2.0, 2.1, 2.2
 - LIN supports baud rate range: 0~ 20KBd
 - FlexRay protocol Supports
- Ethernet
 - Supports 1-channel 100/1000BASE-T1 interface
 - Supports mutual conversion between 100/1000BASE-T1 and standard Ethernet
 - Supports reading link status (LINK UP/LINK DOWN)