What is Vicanlog light?

ZURAGON®

Engineering excellence is our motto

Zuragon was founded by a team committed to a disruptive change of the way the industry works with development and test systems for Autonomuous Driving (AD) and Advanced driver assistance systems (ADAS). By introducing a consistent family of products reutilizing the power of multi-OS design, ADAS knowledge and open source computer vision technology, hand in hand with established standard technologies, Zuragon can offer a suite of products that assists in ADAS development from concept to code on the road.

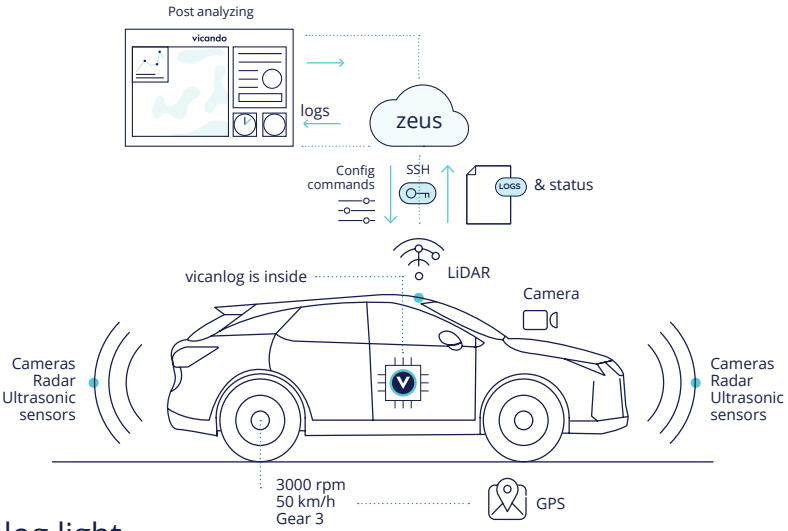
vicanlog light

Vicanlog light is an ultra-compact fanless ADAS/AD logger used to acquire data from multiple sensors and record it to the disk. It is designed not only to record but also to easily replay and analyse your recordings in to a HIL system or directly as stimuli to the ECU under the development.

The logging system records all data from various sensors and time stamps all the data with an universal application level timestamp. With the help of the unique patented time synchronization system , it is possible to control the replay with offset in time for various sensor data. The recorded data in Vicanlog can also be used to later analysed and visualized with various GUI components, such as graphs, traces etc. in Vicando at the office. It is also possible to run your own customized components developed with our SDK while logging and replaying. The unique logging system logs all data into separate sensor specific log files for improving search efficiency during post analysising process.

If needed, recorded data can also be exported to other applications in various standardized formats. **Vicanlog light** supports most commonly used sensor brands for ADAS and AD development. It is also possible to daisy chain several units to increase i.e. the number of cameras. ViCANlog also integrates to Zuragon's smart cloud solution Zeus where log files can be set OTA, trigger conditions and software upgrades can be transfered OTA and a direct stream of what is going on inside the logger at a specific moment is enabled to a direct access OTA to the logger.

Vicanlog data collection



Vicanlog light highlights

01. Covers all vehicles busses, CAN-HS/FD, LIN, FlexRay, Ethernet. Optional 2 built-in CAN-HS/FD channels.
02. Covers video stream, Etherent or USB.
03. Recording of auxiliaries, sound, position, I/O, Analogue.
04. Highly configurable hardware to suit the need of modern development.
05. Powerful trigger machine enabling smart logging of scenes that contains only necessary and valuable data.
06. Event triggering is possible on all connected sensor data.
07. Instant notification and log files can be sent directly to Zeus on interesting scenes recording .
08. Remote OTA logging and trigger condition configuration.
09. Powerful QML & JavaScript scripting supported.
10. Built in GDPR safe algorithms to mask vehicle license plates and pedestrian faces in the log.
11. Cropping of large log files directly on the disk. Enables transfer of important file fragments at low cost and high speed.
12. Compact size requires small space.

Technical specifications

System

Processor: Intel Atom® x7-E3950 Processor
BIOS: AMI
SIO: IT8786E
Memory: 1 DDR3 1866MHz SO-DIMM, up to 8GB

I/O Interface

Serial: 4 COM RS-232/422/485 with 2 isolated
CAN-HS/FD: (Optional) 2 channels using above 2 isolated COM ports
USB: - 2 USB 3.0 (External)
- 4 USB 2.0 (2 External, 2 Internal)
DIO: 16 Isolated DIO : 8 DI, 8 DO
LED: Power, HDD, Wireless
SIM Card: 1 Internal SIM Card Socket

Expansion

Mini PCIe: 3 Mini PCIe Socket:
- 1 Mini PCIe for PCIe/USB/SIM Card
- 1 Mini PCIe for PCIe/USB/Optional mSATA
- 1 Mini PCIe for PCIe/USB

M.2: 1 M.2 Key B Socket

Graphics

Graphics Processor: Intel® HD Graphics 505
Interface: 1 HDMI: Up to 3840 x 2160 @30Hz
1 VGA : Up to 1920 x 1440 @60Hz

Storage

SATA: 1 SATA III (6Gbps)
mSATA: 1 SATA III (Mini PCIe Type, 6Gbps)
Storage Device: · 1 2.5" SSD/HDD Bracket(internal)

Audio

Audio Codec: Realtek ALC892, 5.1 Channel HD Audio
Audio Interface: 1 Mic-in, 1 Line-out

Ethernet

LAN 1: Intel® I210 GigE LAN supports IEEE 1588
LAN 2: Intel® I210 GigE LAN supports IEEE 1588

Power

Power Input: 9V to 36V, DC-in
Power Interface: 3-pin Terminal Block : V+, V-, Frame Ground
Remote Switch: 2-pin Terminal Block

Others

TPM: Optional Infineon SLB9665 supports TPM 2.0, LPC Interface
Watchdog Timer: Reset : 1 to 255 sec./min. per step
HW Monitor: Monitoring temperature, voltages. Auto throttling control when CPU overheats.

Software Support

OS: Linux(pre-installed Ubuntu 18.04.4 LTS or newer)

Mechanical

Dimensions: 155mm x 111mm x 84mm (6.1" x 4.4" x 3.3")
Weight: 1.1 kg (2.43 lb)
Mounting: Wallmount by mounting bracket/ DIN Rail Mount(optional)

Environment

Operating Temperature:
-40°C to 75°C (-40°F to 167°F)
StorageTemperature:
-40°C to 85°C (-40°F to 185°F)
Humidity: 5% to 95% Humidity, non-condensing
Relative Humidity: 95% @ 75°C
EMC: CE, FCC, EN50155, EN50121-3-2