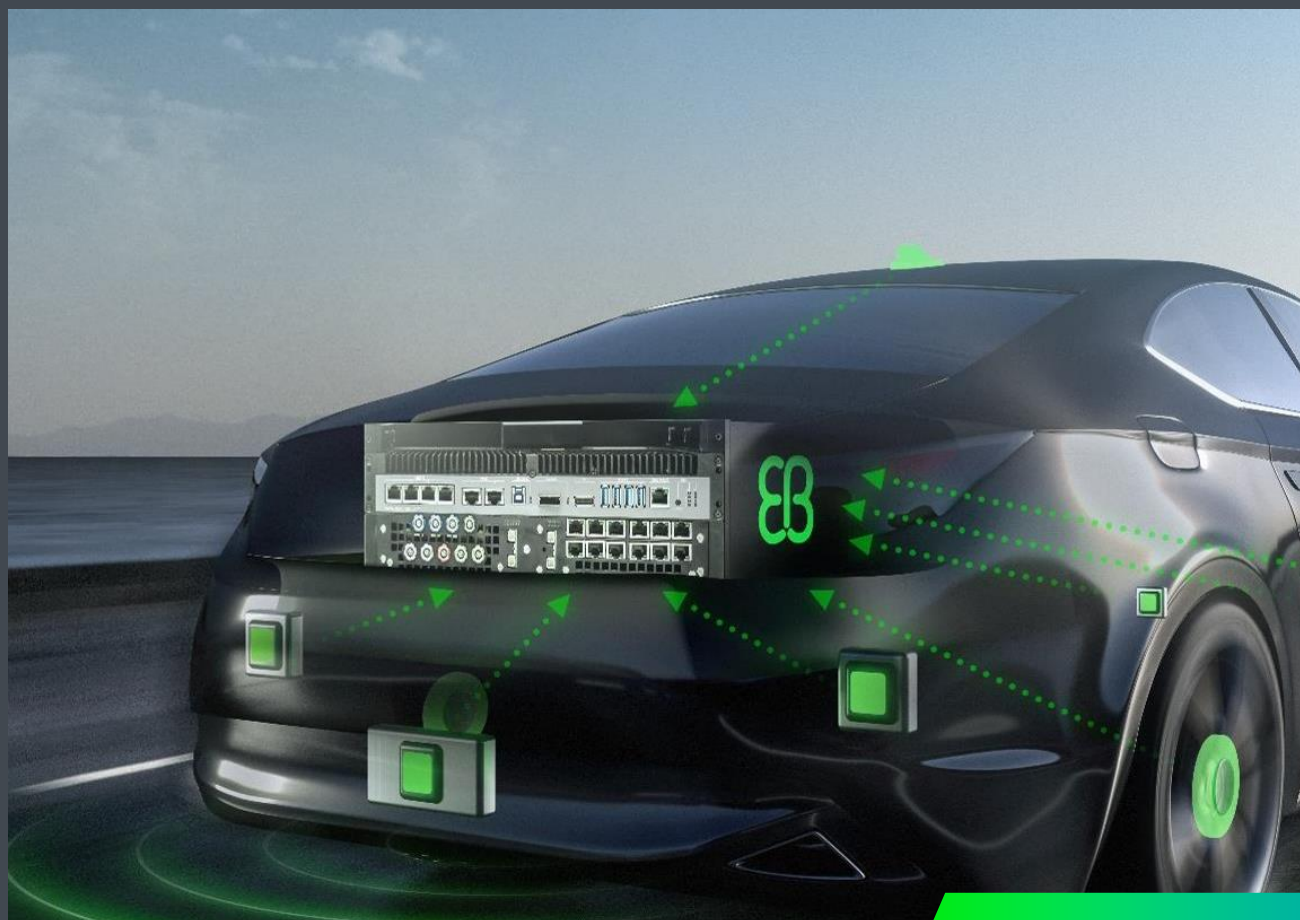




Elektrobit

EBX3 – PCIe logging and replaying solution

Your universal PCIe card for ECU, sensor, prototype development and HiL testing



www.elektrobit.com

EBX3

A PCIe logging and replaying card combining several use cases including

- In vehicle data acquisition
- Sensor & ECU development
- HiL testing

Highlights

- › Up to 8 modules on one card
- › Combine different modules on one card
- › Unified API for all module types

Native PCIe card → can be used in any PC

HW design prepared for **standalone use-case**

Customer specific interface development

One-stop shop solution covering hardware, firmware and application software designed and developed in a way that resources and performance are used as efficient as possible

16GB eMMC

Flexible storage of startup default images.

Six ARM Cores

Dedicated processing power for time critical customer specific application software i.e. annotation support

4+4GB RAM

RAM for frame buffering, replay and processing memory.

FPGA Xilinx Zynq Ultrascale+ ZU11EG

FPGA allows flexible interface modules, data buffering, video compression and future enhancement.

Health Monitoring

Embedded health monitor and status signalization.

EB Timesync

Dedicated timesync connection for synchronization of multiple EBX3 cards.

PCIe

Gen3.1 X16 (128Gbit/s).

Example interface configuration

8 x dual 100/1000 Base-T1

Available interface modules

Ethernet	Flexray	DSI3	CAN-FD	GMSL2/3	GPIO	Custom
(g)PTP synchronization in slave or master mode.	2 channels per module	For ultrasonic sensors	2 channels per module	2 RX Links + 2 TX Links, TAP mode	SPI, I2C, GPIO	Development of customer specific modules