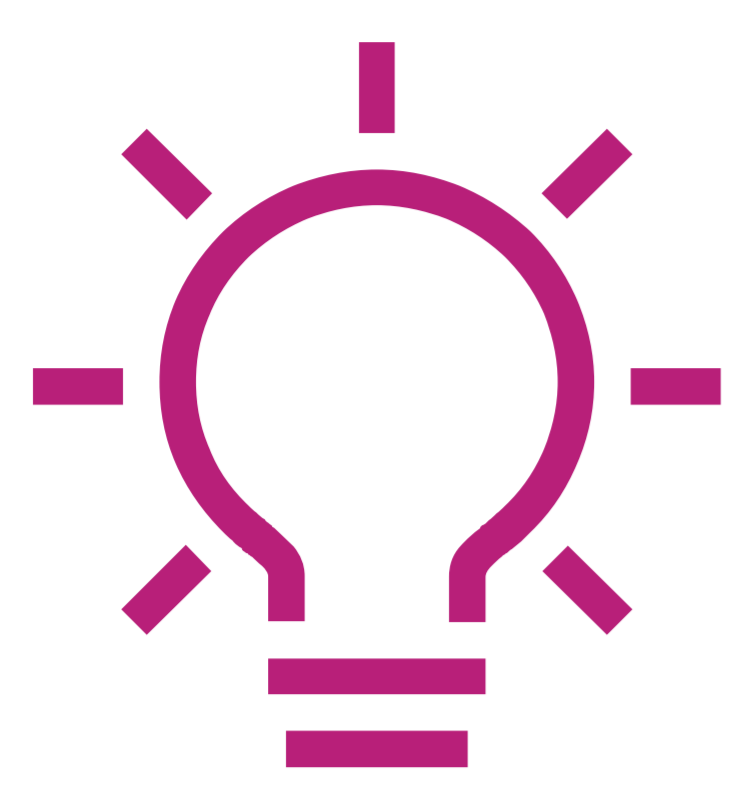
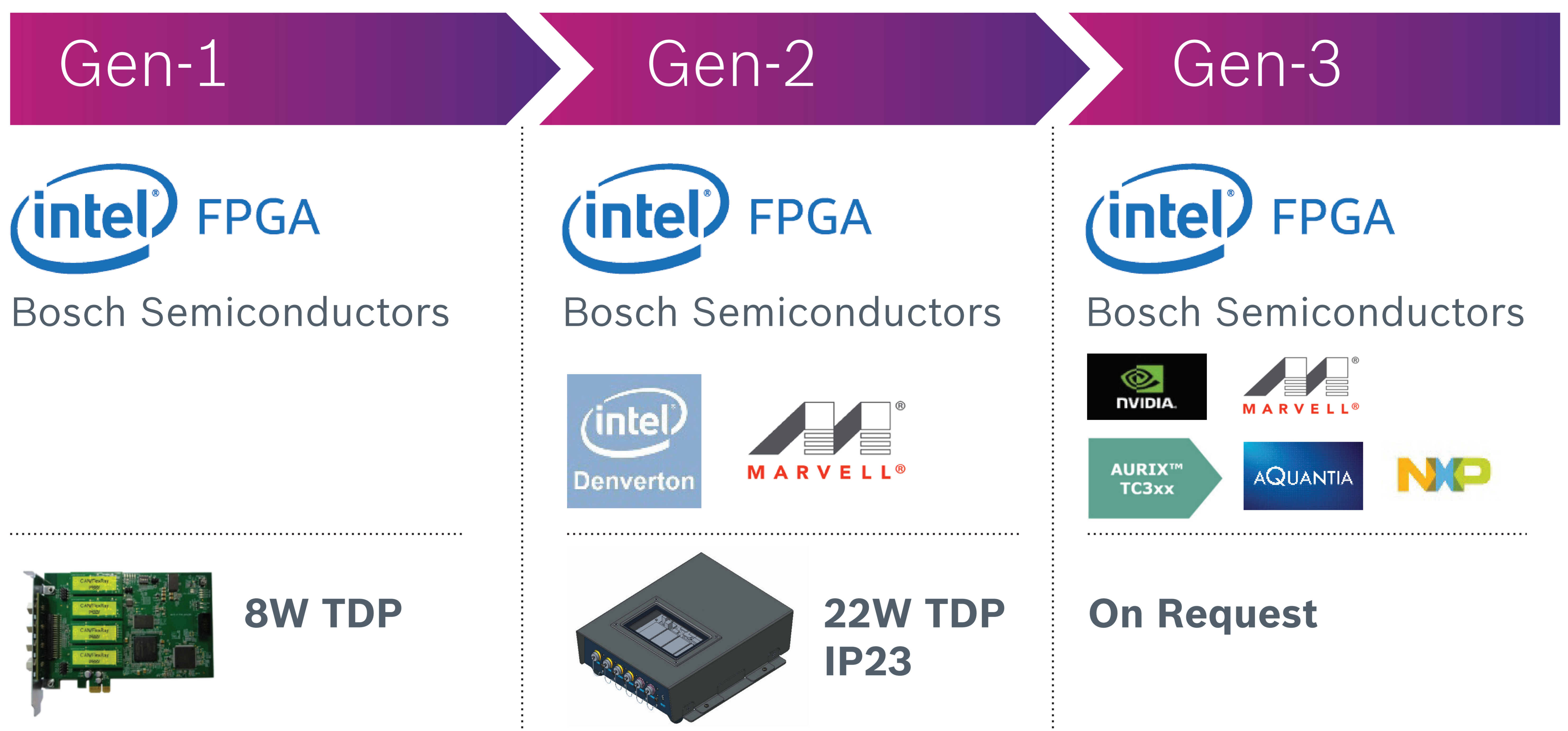


Rapid prototyping for Vehicle computer

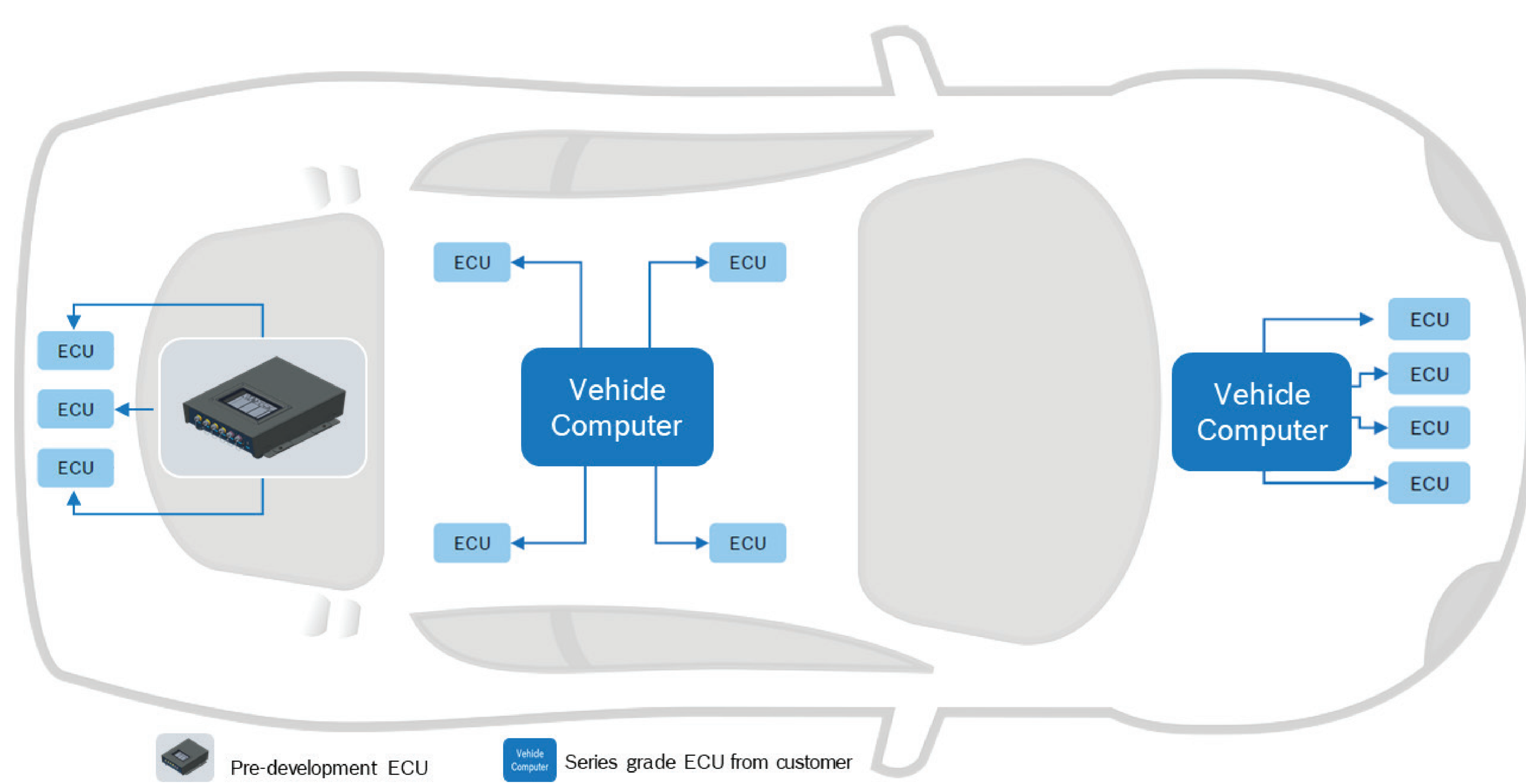
Solution



The Multi-IO series is an advanced multifunctional bus control unit supporting current and upcoming vehicular bus systems and has numerous interfaces, thus covering most of the application fields where real-time bus access is required for rapid prototyping in the vehicle computer space.



Use cases



Gateway



Data logging



Rapid prototyping ECU

Technical Features

TECHNICAL FEATURES

- ▶ 4 bus connectors with pluggable transceivers
- ▶ 2 bus interfaces on each connector
- ▶ Up to 8 CAN-HS bus interfaces
- ▶ Up to 8 CAN-FD bus interfaces
- ▶ Up to 4 FlexRay channels (2 channel-A and 2 channel-B) available on the connectors
- ▶ In each case, 2 FlexRay cores can be connected internally (multi cluster synchronization)
- ▶ 4x 100 Base-T1 Automotive Ethernet
- ▶ 2x Digital IO channels
- ▶ 2x GbE interface for logging
- ▶ Integrated Ethernet switch with 802.1Qav AVB support
- ▶ 802.1AS IEEE 1588 PTP support
- ▶ Wake-up/Sleep mode/Power control support

HOST INTERFACES

- ▶ PCIe x1 Gen1 (2.5 Gbit/s)
- ▶ IEEE 802.3ab 1000 Base-T (1 GbE)

HARDWARE

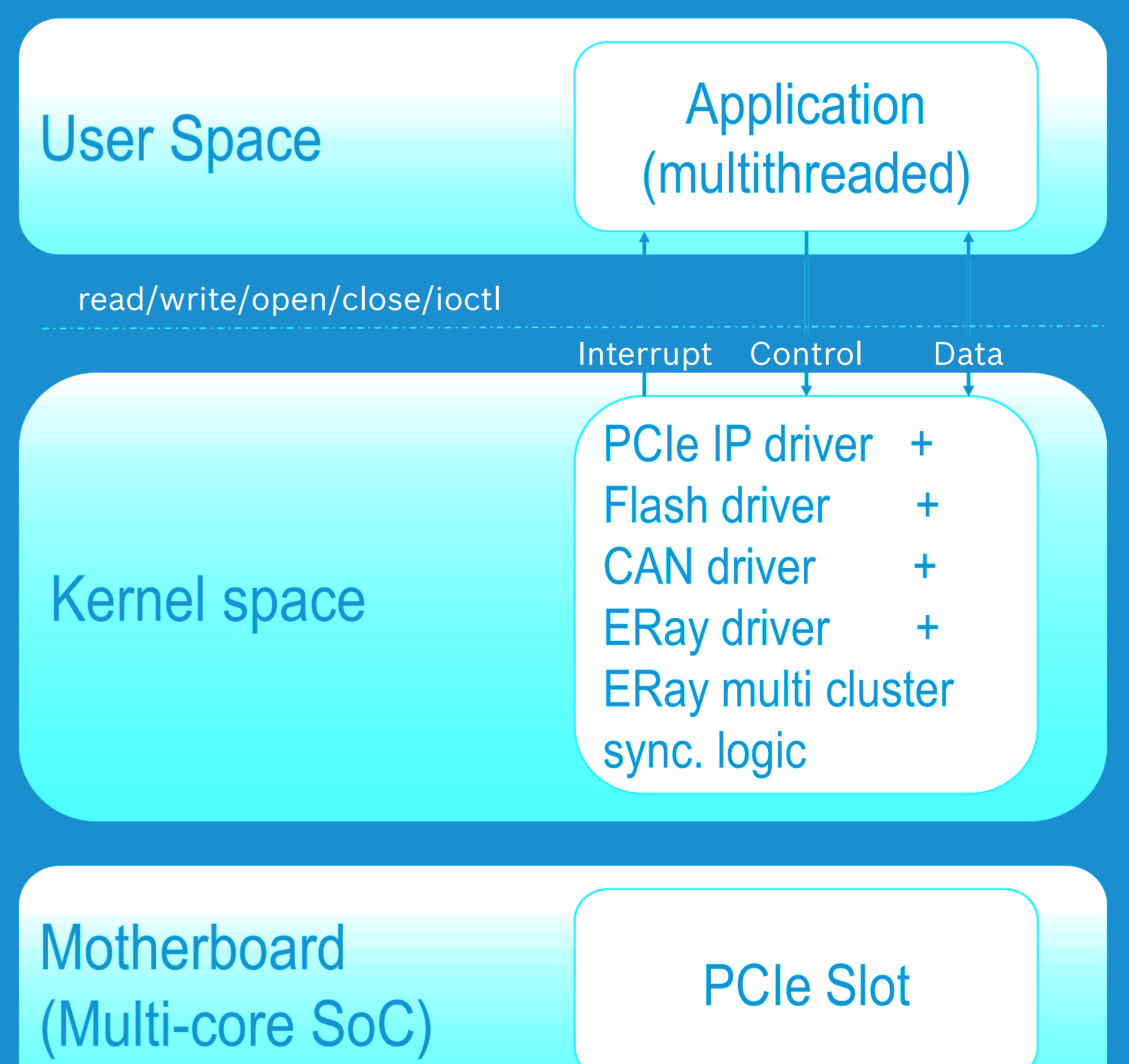
- ▶ Operating Temperature : -40°C to +85 °C
- ▶ Supply Voltage: 8-18 VDC
- ▶ IP 23 compliance

SOFTWARE SUPPORT

- ▶ Linux driver is available (64 bit/32 bit)
- ▶ Hardened Linux + Minimal RFS for stand-alone variants
- ▶ Flashing tool for updating FPGA image
- ▶ Ports to other Operating Systems can be provided upon request

BENEFITS

- ▶ Suitable for Lab/Vehicle environment
- ▶ Upgradable H/W (due to FPGA)
- ▶ Fully customizable Software defined functionality



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