



Discover the Experience

Versatile and Ruggedized FlexRay, CAN and LIN Interface **EB 6100/EB 6110/EB 6120**

FlexRay is the bus system of choice when reliable data communication and high bandwidths are required in automotive communication networks. Along with the increase in requirements compared to the CAN standard, the interface hardware requirements have increased as well. The EB 6100/EB 6110 was designed based on knowledge gained from previous generation hardware, and greatly exceeds expectations in the multitude of its applications.

EB 61x0 stands for

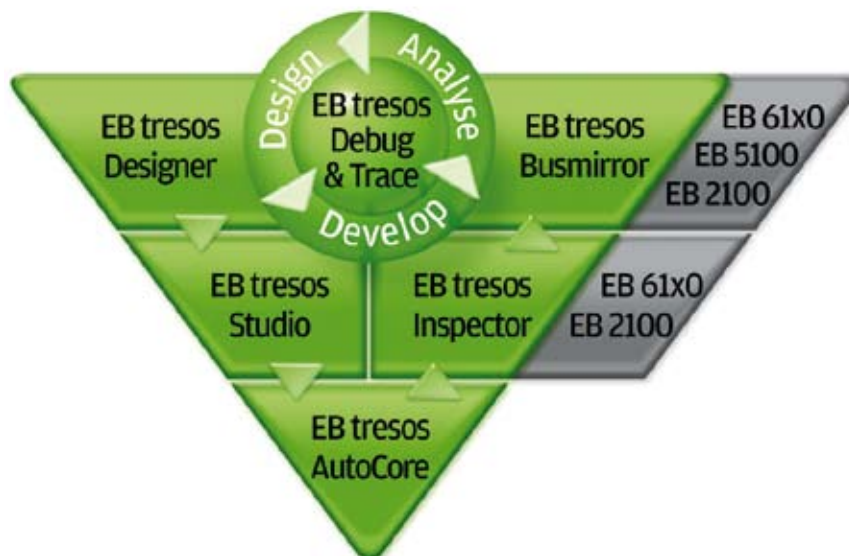
- ▶ Versatility and long-term applicability
- ▶ Powerful FlexRay and CAN interface
- ▶ Rugged housing for automotive use
- ▶ Special FlexRay communication controller design
- ▶ Embedded data logging option

Areas of application

EB 61x0 is a compact and versatile FlexRay and CAN interface hardware in a robust housing designed for use in automobiles as well as at in the office. It interacts perfectly with the EB tresos Inspector measuring and analysis software as well as with the EB tresos Busmirror cluster emulation solution. Together with these software solutions and its open programming interface, EB 61x0 is optimally suited for creating custom software programs.

Apart from EB 6100, the hardware version EB 6110 equipped with non-volatile memory is available. That model also serves as an embedded logging solution, in combination with the EB tresos Inspector.

The EB 6120 is a hardware version of the EB 6110 that has been especially developed to be used as Rapid Prototyping node. A special 60-PIN ZIF (zero injection force) connector is used for the EB 6120 and additional input- and output channels are available.



EB 6100/EB 6110/EB 6120 in detail

Technical Data

- ▶ High-performance Freescale Microcontroller MPC5200B with 400MHz
- ▶ 2 x 10 Mbit/s FlexRay (TJA1080 or RS485)
- ▶ 2 x high-speed CAN (ISO 11898-2)
- ▶ 1 x fault-tolerant CAN (ISO 1189-3)
- ▶ 1 x LIN
- ▶ 4 x analog input channels: 10 kHz sample rate, 12 Bit resolution, 0 to 20 V
- ▶ 16 configurable digital input or output channels
- ▶ PC connections via Ethernet, USB 2.0 or RS232
- ▶ Altera FPGA Cyclone EP2C70 with 256KB SRAM
- ▶ Supply voltage: 6,5 V to 30 V
- ▶ Robust automotive housing
 - Measurements 150 x 100 x 25 mm
 - Protection category IP65
 - Guaranteed ambient temperature range: -30° C to +70° C
- ▶ Reliable high-quality ODU connectors
- ▶ Low power consumption (~5 W)

EB 6110

As EB 6100 but with additional 4 GB Flash memory and control box for Embedded Logging (EB 6111)

EB 6120

As EB 6100 but with additional 4 GB Flash memory and a 60-Pin ZIF (zero injection force) connector with the following additional input and output channels:

- ▶ JTAG Debugger connector
- ▶ 8 additionally configurable digital input and output channels: 10 kHz sample rate
- ▶ 8 timer channels

Delivery content EB 61x0:

- ▶ EB 61x0 hardware
- ▶ International power supply + cable
- ▶ Ethernet, USB 2.0 and RS232 cable
- ▶ Antistatic carry box
- ▶ Control box (EB 6111) for Embedded Logging + connection cable (only for EB 6110)

Optional Equipment:

- ▶ EB 61x0/EB 5100 ConnectorKit - Set of FlexRay, CAN, Power and Trigger ODU connectors
- ▶ EB CAB_ODU_SUBD - FlexRay 1:1 cable (15 cm)
- ▶ EB CAB_ODU5_FRY_SUBD - FlexRay Y-cable (2 x 1,5 m)
- ▶ EB CAB_SUBD_SUBD - CAN/FlexRay SUBD-SUBD-Cable (2 m)
- ▶ EB CAB_ODU5_CANH_SUBD - CAN highspeed 1:1 cable (2 m)
- ▶ EB CAB_SUBD_FR_TERM RS232 FlexRay termination
- ▶ EB ODU2_Power_BANANA - Power cable banana (3 m)
- ▶ EB CAB_ODU22_ADIO_SUBD - ADIO cable (3 x 0,5 m)
- ▶ EB CAB_SUBD_3NODE - 1,5m 3x SUBD FlexRay connection cable



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