Continental Engineering Services offers a compact SystemOnModule solution based on a Freescale® i.MX6 ARM SoC with diverse interfaces for a use in automotive multimedia and infotainment applications with its CES automotive CoreBoard. The flexibility and strength of the architecture allows the additional use in other areas of embedded applications. Therefore the expanded temperature range and the exclusive use of automotive-components the module is suitable for the use in harsh environments.

Multiple Interfaces, Scalability, Computing Power with Memory Technology

With a 2 x USB 2.0 interfaces, 2 x UART and 2 x CAN the Core Board has an Ethernet and PCIe interface. For additional periphery there are 3 x SPI and 3 x 12C, as well as 16 x GPIO signals. The computing power is from ARM® Cortex™-A9 Single to Quad Core within the iMX6 family, up to 2 GB DDR3 RAM are used depending on the requirements. In order to deal with complex memory scenarios, there are eMMC Flash, RAW NAND and Serial Flash available. For the sophisticated 2D and 3D applications there are three display-interfaces, which enable a hardware-accelerated HD video material representation.

Compact form factor

On account of the very compact design the CES automotive board can be used as a Piggy-Back in a customer oriented circuit board, this is an ideal customer specified solution for the development. It also includes In-Vehicle devices, small portable solutions or stationary embedded applications in different areas (Automotive/Industrial/Medical/Railway).
Are you looking for a suitable embedded platform for your application? Combine the CES automotive CoreBoard with our Know-How of hardware, software and mechanical design, such as the full service of our experts:

- Customer-specified software board support packages and development of applications
- Development of hardware for customer-specified design
- Mechanical integration of solution in a system or case
- Verification and validation of the whole system
- Industrialisation and production of your products

### Processor / Performance

Freescale® i.MX6 Quad ARM Cortex A9

- up to 1.0 GHz, 1 MB L2 cache

### Graphics

- Video, 2D Graphics and 3D Graphics, 3D graphics with 4 shaders up to 200 MT/s, dual stream 1080 p / 720 p decoder/encoder, OpenGL, OpenCL and OpenVG 1.1

### RAM

- DDR3 RAM, 1066 MT/s up to 2 GB

### Flash

- RAW NAND 1 GB
- eMMC Flash 4 GB up to 32 GB
- Serial NOR Flash 1 Mb up to 16 Mb

### Display

- LVDS 18/24 bit dual channel up to WUXGA 1920 x 1200
- HDMI v1.4

### Technical Data

- Dimensions: 85 x 80 x 10 mm
- Net weight: 50 g
- Input voltage: 3.8 V +/- 10 %
- Current consumption typ.: 1000 mA
- Power consumption typ.: 3.8 W

### Environmental Conditions

- Operating temperature (ambient): -40 up to +85°C
- Storage temperature: -40 up to +85°C

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