ESCAN-HIS-100 Product Description

The CAN Communication Stack ESCAN-HIS-100 offers a standardised, HIS[1] compliant (V1.0) interface to the higher software layers. The basic functions of ESCAN-HIS-100 include:

- Initialisation of the CAN controller
- Transmission of CAN messages
- Reception of CAN messages
- Overflow and Error handling
- Timer events

The ESCAN-HIS-100 supports the following CAN controller features:

- CAN 2.0A and CAN 2.0B
- Basic-CAN and Full-CAN
- Baud rates up to 1 Mbit/s
- Interrupt and Polling modes

The ESCAN-HIS-100 provides the application with a standardised interface that allows the control of hardware-specific functions of different CAN controllers by decoupling the application from the above-mentioned controller features.
The communication stack operation is independent of the employed operating system and is configurable to the project-specific requirements.

The Communication Stack is applicable to

- 8/16/32 Bit Microcontrollers
- Internal CAN cells
- External CAN cells, subject to validation
- ANSI C Compiler (Assembler possible)
- All operating systems (no system calls required)

Availability

- Available for Atmel AT89C51CC03 and T89C51CC01 with Keil Compiler V6/7
- Available as a buyout or licensed product (price on request)

Extent of delivery

- Source code (C and Assembler)
- Documentation
- Sample Program

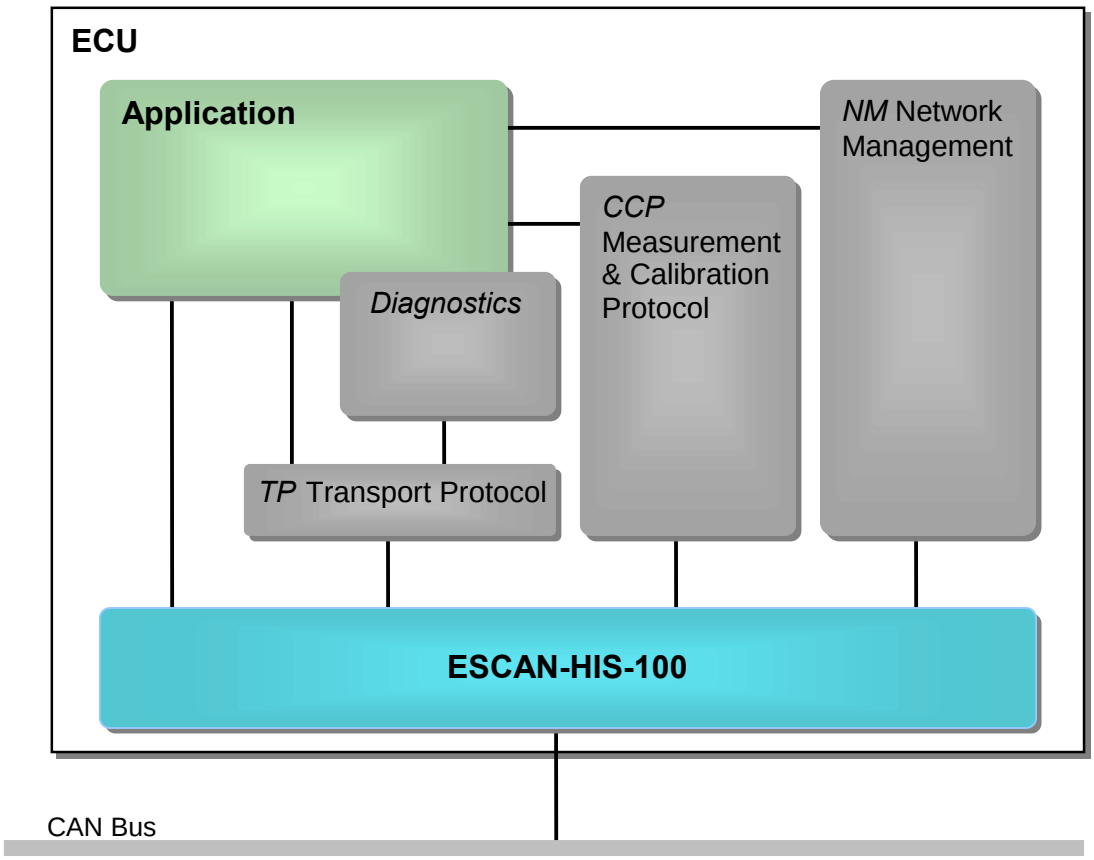
[1] HIS is the Software Initiative of German vehicle manufacturers. Innovation in modern vehicles is to a great extent realised by software in electronic control units. Therefore vehicle manufacturers must extend their competence in the basics and methods of software design and quality assurance for microprocessor based control units. This has motivated the vehicle manufacturers Audi, BMW, DaimlerChrysler, Porsche, and Volkswagen to bundle their activities for standard software modules, process maturity levels, software test, software tools and programming of control units. The common goal is to achieve and use joint standards. (www.automotive-his.de)

Additional Service

To substantially reduce your development time and cost we offer:

- Hotline Support
- Tailored Support during Software Integration
- Target-specific Customisation

Software Architecture



Optional components building on the CAN communication stack, e.g.:

- Transport Protocol in accordance with ISO 15765-2
- Diagnostics in accordance with ISO 15765-1 and ISO 15765-3
- CAN Calibration Protocol (ASAP Task Force)
- Network Management (OSEK-NM)