

System for Providing Vehicle Information.

Network-Enabled Plug & Play Solution.

Central Body Control Unit/Customized Modular Instrument Cluster/Menu Control Unit

When it comes to implementing vehicle electronics, the increasing range of functions in modern commercial vehicles presents new challenges in terms of efficiency, comfort, and functionality. Many key tasks can no longer be realized reliably using conventional electric wiring.

Comprising the CBCU (Central Body Control Unit), CMIC (Customized Modular Instrument Cluster), and MCU (Menu Control Unit), our concept offers a comprehensive, compact platform solution that has been specifically designed for emerging new markets.

In conjunction with advanced CAN networking, cabling requirements are significantly reduced: Potential sources of faults, such as cable contacts, relays, and fuses, are minimized, which translates into greater reliability and more scope for modular solutions.



CBCU – Powerful and versatile

The CBCU (Central Body Control Unit), featuring a powerful 32-bit microprocessor, lies at the heart of the network and offers the following basic functions:

- Gateway and firewall to access and protect the rest of the vehicle network
- CAN interfaces in accordance with SAE J1939
- Configurable signal inputs
- Diagnostics-enabled electronic power switches
- Data processing to drive the graphics display of the CMIC
- Fast, project-specific applications thanks to SPS programming
- Errors stored for on- and off-board diagnostics
- Multiplex function through expansion via MUX nodes



Customer-specific diagnostics concepts can be realized at the application level. Depending on their priority, error states can be viewed on the instrument display or read out from the error memory at a service workshop. This allows the effective analysis and resolution of active and intermittent faults.

CMIC – Clearly structured information

The CMIC (Customized Modular Instrument Cluster) display instrument supports a full range of advanced information and communication applications.

The main features include:

- High-quality design and precision engineering
- Standard display instruments plus vehicle information accessible via menu system
- Clear presentation of information
- Choice of display variants: monochrome in two sizes or color display



The CMIC has a special two-color graphics display that presents all key information and data clearly by means of intuitive icons. The graphics display can be used to view all key information and data by means of intuitive icons. It also shows the different menu options clearly to facilitate operation.

MCU – Easy to operate and always at hand

The MCU (Menu Control Unit) makes it easy to select the chosen option by rotating and pressing the dial – it couldn't be simpler.

Intuitive operation, smart display options, and intelligent, scalable on-board electronics – with our compact platform solution, new vehicles are ready for future requirements.

