

Automotive Segment

Control
Multiplex/Network
Remote Control/Keyless Entry



Our commitment is to become the leading partner worldwide for the automotive electronics industry, offering application-tailored components and system solutions.

- Independent company within the Daimler-Benz group
- Over 15 years design expertise with leading rugged silicon program
- High volume production of ABS and airbag ICs
- State-of-the-art wafer fabs and packaging facilities
- Broadline automotive supplier who owns all design and process technologies as well as design environments with automotive macros and core architectures

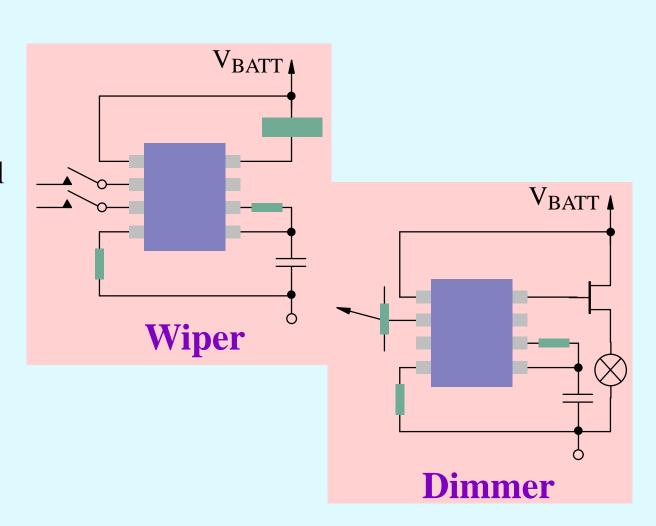


- Customer specific interface ICs for ABS and airbag
- Linear and PWM power control for valves and motor
- System kits for remote keyless entry and immobilizer
- Mixed-signal ASICs for sensor signal conditioning
- MOSFETs for direct actuator drives
- Microcontrollers with CAN and A/D
- New designs with focus on microcontroller and BiCDMOS products



Body Electronics

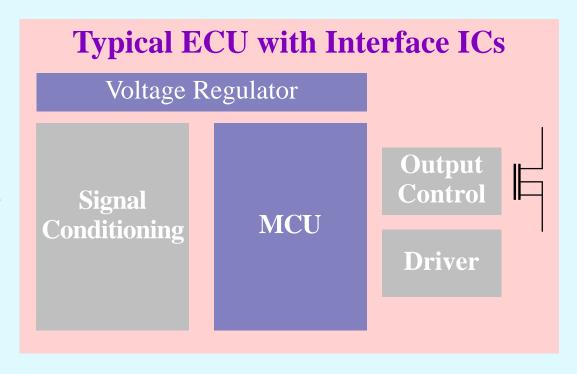
- Direction indicators
- Wipe and wash control
- Long-time timer
- Lamp outage monitor
- Dashboard dimmer





Interface ICs

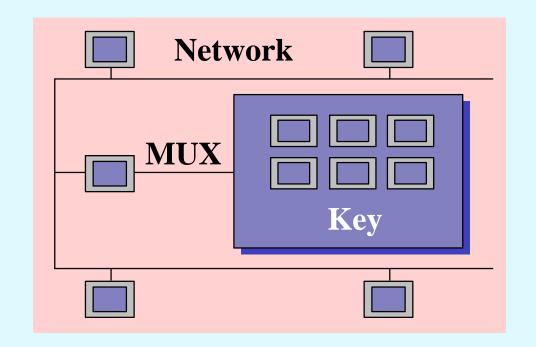
- Customer tailored products
- ABS and airbag
- Sensor-signal conditioning
- Valve control and squib driver
- Universal parallel driver
- CMOS ASIC for dashboard and engine control





Network/Multiplex

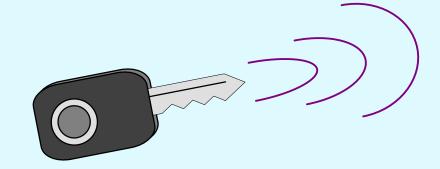
- Competent in all automotive network protocols
- Stand alone CAN controller
- Microcomputer with CAN
- Transceiver for CAN, ISO 9141
- Point-to-point multiplex





Security and Convenience

- RF-remote keyless entry
 - Receiver, IF
 - PLL transmitter, 433 MHz
- IR-remote keyless entry
 - Preamplifier
 - LED driver
- Immobilizer
 - Reader IC
 - Transponder
- Alarms
 - Ultrasonic/Infrared detectors





Microcontrollers

Standard and Application Specific

- 4-bit MARC4 family
- 8-bit C51 family
- Super 8-bit C251 family
- 32-bit SPARClet family
- Automotive macro functions
 - A/D, timer, multiplex



C251

C51

M4



Trench Technology

- 8 Mcell/mm²
- Low-power dissipation
- Lowest r_{DS(on)}
 - 6 m Ω n-channel TO-220
 - 20 m Ω p-channel TO-220
- 60 V BiC/DMOS
 - Power IC technology

