

Safety has relied on Infineon Micro Controllers for years – What about security controllers used in automotive M2M applications?

SOLID FLASH™ SLI 76 “in Car” family

The Infineon’s SOLID FLASH™ - SLI 76 “in Car” controller family is directed to meet high quality standards of automotive Machine-to-Machine (M2M) applications while offering the required flexibility.

M2M has become a very diversified market with project-specific requirements. While some applications stay close to basic SIM quality standards, the most typical ones like GSM-based smart metering or automotive e-call support have enhanced requirements in terms of robustness and endurance. But none of them want to compromise on flexibility. In order to address the automotive related market Infineon has designed its new SOLID FLASH™ - SLI 76 “in Car” controller family by combining the >25 years of expertise in many critical automotive applications (e.g. airbag, braking) with the know-how of the Smart Card ICs used in mobile applications, Infineon developed the SOLID FLASH™ - SLI 76 “in Car” controller family, which offers the required reliability, flexibility and security needed and meets as an industry first the quality needs of the AEC Q100.

Our dedicated SOLID FLASH™ - SLI 76 “in Car” platform offers:

- Qualified for -40 to 105°C
- 17 years lifetime
- Flexibility as known from other SOLID FLASH™ - products
- Qualified according to Automotive electronics Council (AEC) Q100
- Accompanied with quality documentation according to Products Part Approval Process (PPAP)
- Improved quality:
 - Extended stress testing
 - Rigorous screening
 - Manufactured in Infineon automotive related process with improved control
- Easy software migration from existing SOLID FLASH™ - SLx families

Overview SOLID FLASH™ – products

Advantages of SOLID FLASH™ – products

Flexibility in logistics chain leads to

- Reduction of complexity and risks in the forecast and planning process
- Reduction of inventory and inventory risks
- Faster reaction to market changes through short lead times and flexible product usage

Flexibility in development leads to

- Fast prototyping and learning cycles through immediate availability of hardware samples
- Improved time-to-market

Security concept of SOLID FLASH™ – products

Architectural security

- Data encryption
- Data management
- Fault detection

Functional security

- Secure mask transfer
- Secure download
- Locking mechanism