D. Kaiser – optical communication

„infotainment“ in the car - information & entertainment

GPS navigation; DVD and digital radio (DAB); rear seat games, internet and TV, integrated cellular phone, ...

→ need for higher bit rates than the electrical CAN-Bus
→ need for an optical bus!
D. Kaiser – optical communication

MOST-Bus – Media Oriented Systems Transfer

→ uses fiber optic interconnections – Polymer Optical Fibers (POF)!
D. Kaiser – optical communication

advantages:
• higher bandwidth
• moderate costs
• weight reduction
• synchrone and asynchrone data
• immunity to EMI

→ realisation of a MOST-Bus-system in ring topology
  (components of MOST-coorporation and Oasis SiliconSystems AG)

→ development and implementation of own MOST-components
  (temperature sensor and LC display, camera device)