**I/O Overview**

1. **Extension for using extended signal analysis. Additional channels are required.**
2. **The number of function instances is limited for selected functions.**
3. **Several channel types are required for this function.**

### I/O Channels

- **SCALEXIO Bus Boards**
  - DS6121 Multi-I/O Board
  - DS6241 D/A Board
  - I/O Board
  - DS2621 Signal 10 Power Switch
  - DS2642 FIU & Power Switch Board
  - DS6351 LIN Board
  - DS6342 CAN Board
  - DS6336-PE Ethernet Board
  - DS6336-CS Ethernet Board
  - SCALEXIO Processing Board
  - DS6333-PE Automotive Ethernet Adapter Board
  - DS6333-CS Automotive Ethernet Adapter Board
  - DS6331-PE Ethernet Board
  - DS6331-CS Ethernet Board
  - DS6321 UART Board
  - DS6651 Multi-I/O Module: 6 A/D channels, 6 D/A channels, 16 digital I/O channels

### Bus Overview

- SCALEXIO Aerospace Solutions
  - SCALEXIO Interface Solution for ARINC 429
  - SCALEXIO Interface Solution for ARINC 644 and AFDX®
  - AFDX® is a registered trademark of ARINC
  - SCALEXIO Interface Solution for MIL-STD-1553

- Additional SCALEXIO Solutions
  - SCALEXIO FieldBus Solution for PROFIBUS and EtherCAT
  - SCALEXIO Serial Interface Solution for Serial Peripheral Interface (SPI) and Inter-Integrated Circuit (I2C)
  - SCALEXIO EMI Solution for Electric Drives Simulation
  - SCALEXIO Test/Reach Solution
  - PSI Master/Slave Solution