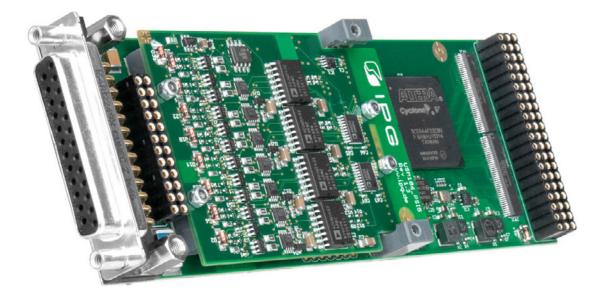
M406 - PSI5 Interface



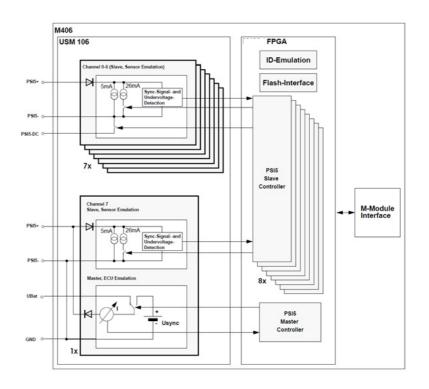
Features

- 8 independent slave channels
- 1 master channel
- Up to 4 sensors per channel
- Support of PSI5 Rev 1.3
- Galvanical isolation of all channels against each other and against system supply
- User defined baudrates between 1kBaud and 1MBaud
- Cycle time configurable between 50us and 300ms
- User configurable initialization phase
- Error detection: CRC3 or Parity
- Supported Modes:
 - Asynchronous Operation (PSI5-A)
 - Synchronous Parallel Operation (PSI5-P)
 - Synchronous Universal Operation (PSI5-U)
 - Synchronous Daisy Chain Operation (PSI5-D)
- Any number of data bits from 0 to 32
- Manual or automatic re-initialization due to under voltage condition
- Supply voltage range : 5..25V

Use Cases

- Emulating crash sensors for testing airbag ECUs in passenger safety systems
- Interfacing sensors and actuators in powertrain and vehicle dynamic applications

Block Diagram



Technical Data

PSI5 channels• 8 • Each channel supplySupported slaves per channel4Baud rate1kBaud 1MESupported PSI5 specification versions1.3 and partiallOutput stage supply voltage727V, reverseOvervoltage protection-30V +30VSupply current500mAAddress space• A08D16 and • The PSI5 reAvailable connectors25 Pin SubD current		
Baud rate 1kBaud 1ME Supported PSI5 specification versions 1.3 and partial Output stage supply voltage 727V, reverse Overvoltage protection -30V +30V Supply current 500mA Address space • A08D16 and • The PSI5 re	PSI5 channels	 Each chann
Supported PSI5 specification versions 1.3 and partial Output stage supply voltage 727V, reverse Overvoltage protection -30V +30V Supply current 500mA Address space • A08D16 and • The PSI5 re	Supported slaves per channel	4
Output stage supply voltage 727V, reverse Overvoltage protection -30V +30V Supply current 500mA Address space • A08D16 and • The PSI5 re	Baud rate	1kBaud 1ME
Overvoltage protection -30V +30V Supply current 500mA Address space • A08D16 and • The PSI5 re	Supported PSI5 specification versions	1.3 and partial
Supply current 500mA Address space • A08D16 and • The PSI5 re	Output stage supply voltage	727V, reverse
Address space Address space Addre	Overvoltage protection	-30V +30V
The PSI5 re	Supply current	500mA
Available connectors 25 Pin SubD c	Address space	
	Available connectors	25 Pin SubD c

Order Information

Order Number	IO-M406
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Alternatives

M407	For SPI based
M410	For CAN FD co
M405	For LIN comm
M414	For SENT com

IBaud ally 2.0 se voltage protected nd A24D32 registers are available in the A24D32 address space only connector, female

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