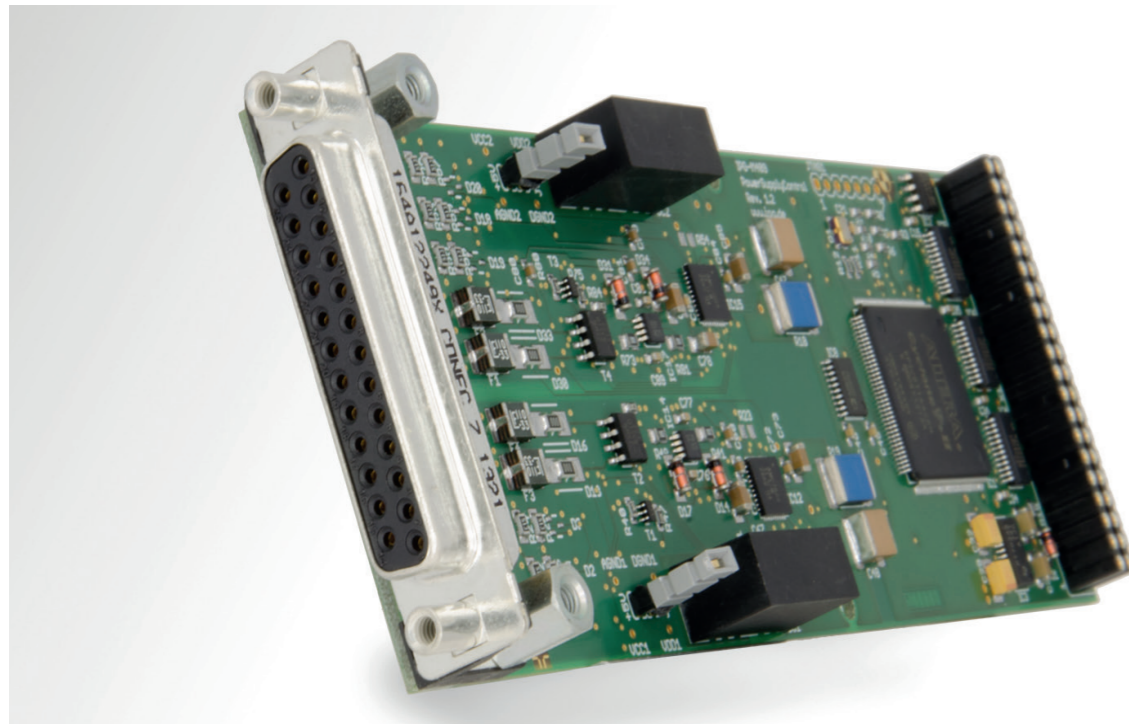


M409 – Power Supply Control



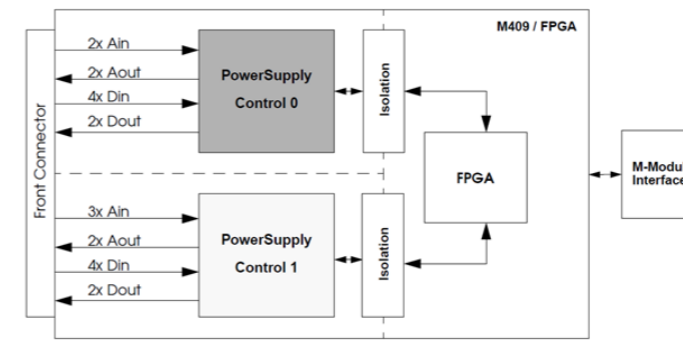
Features

- Two units, each containing
 - 4x Digital inputs with adjustable thresholds
 - 2x Digital open drain outputs
 - 2x/3x Analog inputs, 12bit, 0..10V
 - 2x Analog outputs, 12bit, 0..10V, 20mA
- Each unit usable as power supply control unit or as multi purpose I/O
- Galvanic isolation between power supply0, power supply1 and system ground
- Supported power supplies
 - EA-PS9080-xxx
 - Delta SM1500
 - Lambda Genesys
- Most power supplies with 0..5V / 0..10V analog/ digital control interface

Use Cases

- Controlling 2 independant power supplies in automotive test systems or process automation applications
- Aquire analog or digital signals in process automation
- Driving relay contacts or status LEDs with GPIO ports in process automation

Block Diagram



Technical Data

| | |
|----------------------|---|
| Maximum voltage | 30V |
| Number of units | 2 |
| Analog Inputs | <ul style="list-style-type: none"> • Resolution • 12bits (corresponds to 2.44mV) • Input voltage range • 0V .. 10V • Accuracy • +/-15mV • Sample rate • 20 kSPS • Input resistance • 102kOhm +/- 0.2% • Low-pass filter • 2.5kHz |
| Analog Output | <ul style="list-style-type: none"> • Resolution • 12bits (corresponds to 2.44mV) • Output voltage range • 0V .. 10V • Accuracy • +/-20mV • Sample rate • 20kSPS |
| Digital Input | <ul style="list-style-type: none"> • 4x comparator input Umax • 10V • Input resistance • 200kOhm • Selectable threshold voltage • 0.0V ... 10V • Protection against input voltage • <0.0V or >10.0V |
| Digital Output | <ul style="list-style-type: none"> • 2x open drain output Umax • 10V • Imax • 1.0A • Output resistance (switch closed) • about 180mOhm • Over voltage protection • External negative voltage is applied • Over current protection • External current greater 1.5A |
| Available connectors | 25 Pin SubD connector, female |

Order Information

| | |
|--------------|---------|
| Order Number | IO-M409 |
|--------------|---------|

Alternatives

| | |
|------------------|--------------------|
| M441/M27/M28/M66 | for binary ouputs |
| M408/M31/M32/M66 | for binary inputs |
| M62N | for analog outputs |
| M35N/M36N | for analog inputs |