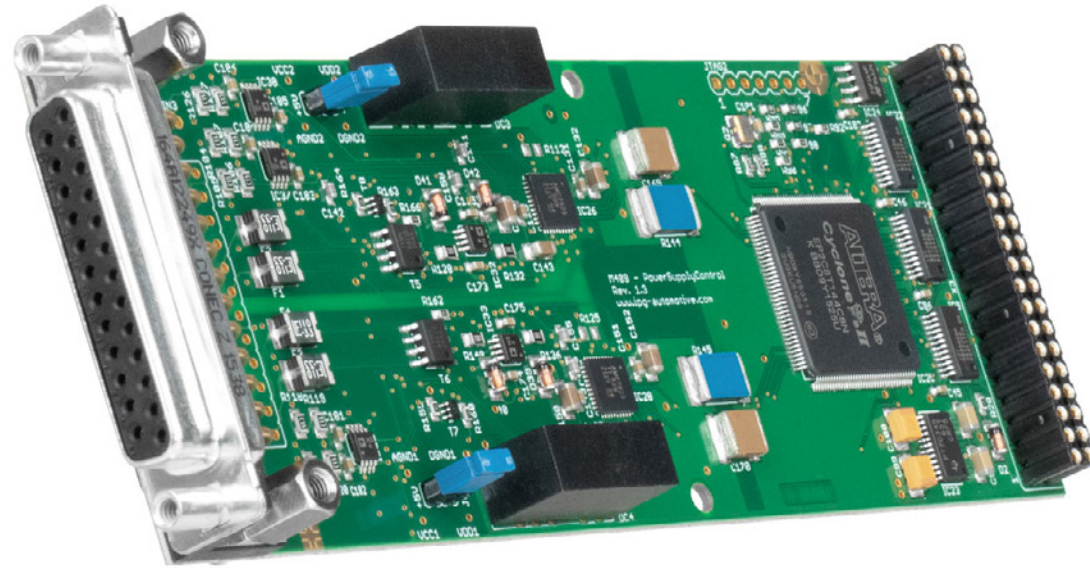


M409 – Power Supply Control / Universal I/O



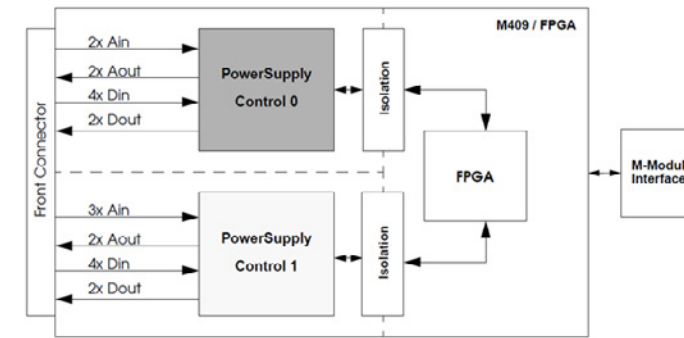
Features

- 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
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Alternatives

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