

M408 – Universal Digital and PWM Input



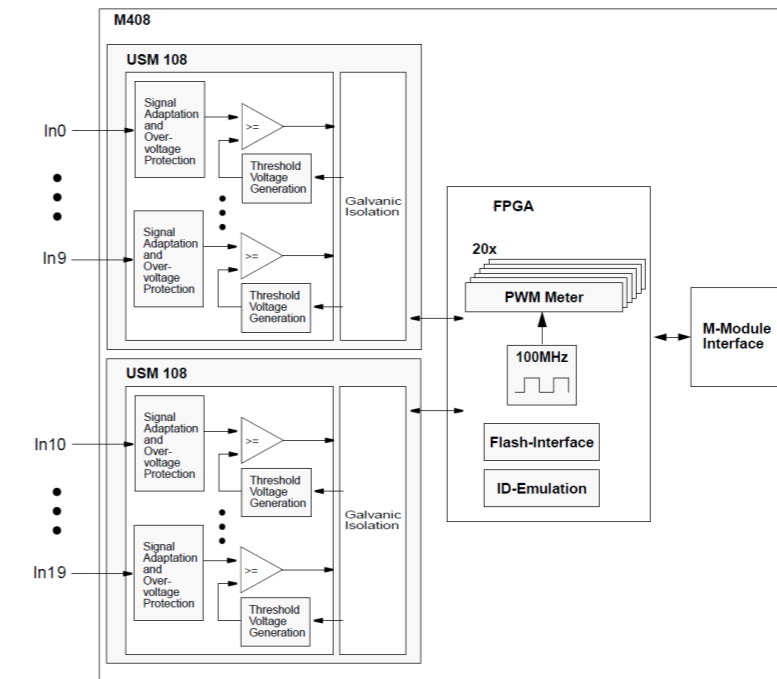
Features

- 20 Input channels usable as square wave or PWM measurement or binary input
- Input threshold of each channel separately configurable between 0.2 ..25.2V
- Input voltage range: 0 .. 60V
- Input resistance: 220kOhm
- Sample rate: 100MHz
- Frequency range from 0 up to 1MHz
- Accuracy is better than 0.02%
- Receives up to 8 SENT signals (SAE J2716)
- Galvanic isolation against system supply

Use Cases

- Acquiring individual digital signals or binary coded information in automated test systems
- Measuring duty cycle and frequency of PWM signals from sensor outputs
- Receiving SENT messages in automotive test applications

Block Diagram



Technical Data

Input channels	20 input channels
SENT channels	8, configurable to use any of the input channels
Input voltage range	0V .. 60V
Input threshold voltage range	0.2V .. 25.2V
Input threshold voltage resolution	0.025V
Maximum input threshold voltage hysteresis	7.5V
Input resistance	220kOhm
Frequency range	0 .. 1MHz
Period resolution	10ns
High time resolution	10ns
Address space	<ul style="list-style-type: none"> • A08D16 or A24D32 • The SENT registers are available in the A24D32 address space only
Available connectors	25 Pin SubD connector, female

Order Information

Order Number	IO-M408
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Alternatives

M31/M32	For acquiring digital signals
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