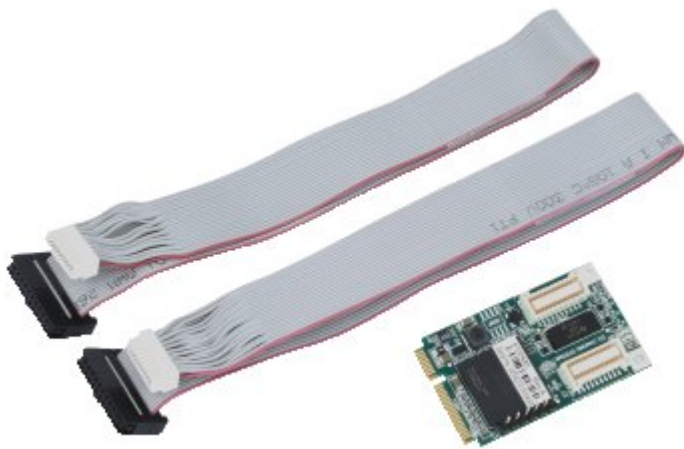


DS-MPE-GPIO 36 Channel Digital I/O PCIe MiniCard



FEATURES

- 36 buffered digital I/O lines
- Configurable for up to 4 24-bit PWM
- Configurable for 4 programmable counter/timers
- 3245 transceivers for high current output
- Software configurable pull-up/pull-down
- +3.3VDC input power
- Latching connectors for increased ruggedness
- Support for Windows 7, XP, CE, and Linux 2.6
- Universal Driver support for all functions
- Operating temperature -40°C to +85°C
- PCIe MiniCard full size form factor (50.95 x 30mm)

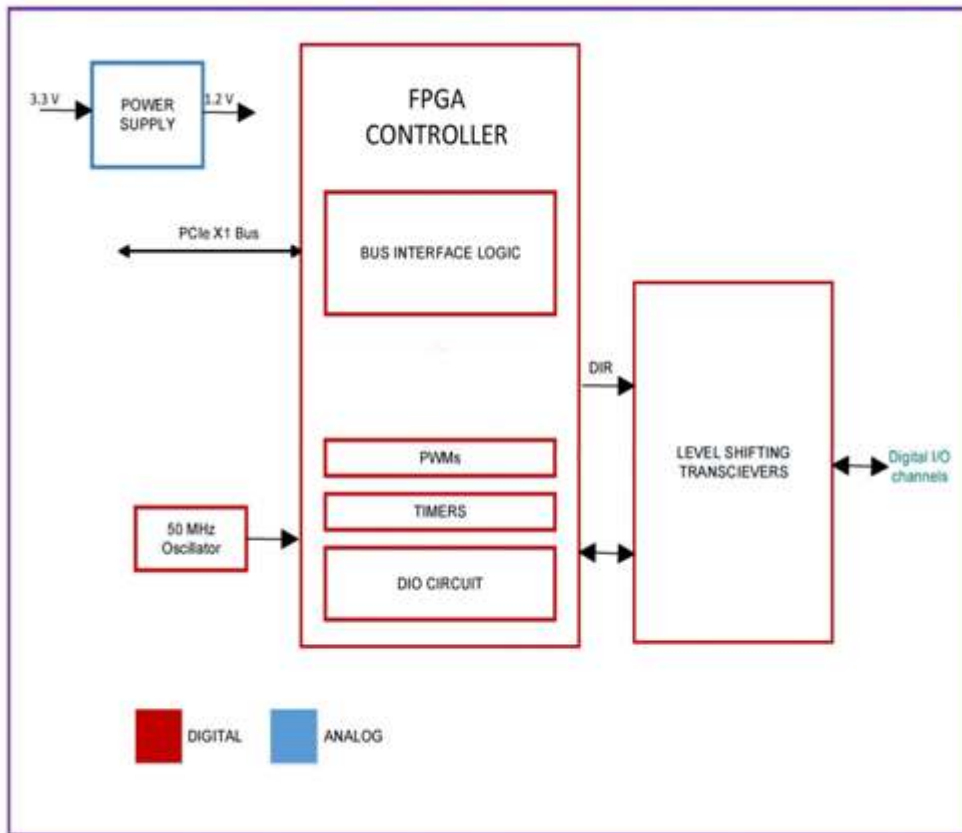
Description

The DS-MPE-GPIO is a rugged, low cost 36-channel digital I/O PCIe MiniCard module that is ideal for digital I/O expansion in embedded and OEM applications.

An FPGA provides 36 buffered digital I/O lines that can be configured to operate in simple I/O mode in the form of 8-bit and 4-bit ports, or in counter/timer and pulse width modulator modes. Two ports are fixed digital I/O ports with programmable direction in 8-bit groups. One port can operate as either a 4-bit DIO or 4 counter/timers with 1 input and 1 output per counter. One port can operate as either 8 DIO or up to 8 pulse width modulators.

Extended temperature operation of -40°C to +85°C enables the board to operate in environments with extreme temperature swings, such as vehicles or outdoor installations.

The DS-MPE-GPIO product comes with the 36-channel PCIe MiniCard digital I/O module, the CK-DAQ02 cable kit with two digital I/O cables, and a hardware kit with mounting screws.



CK-DAQ02 includes the following cables:

No.	Qty	Cable	Description	Drawing
1	2	6980501	1.25mm 20 Pin IDC	Show

◆ Specifications

Number of DIO	36
Pull-up / Pull-down Transceivers	Software configurable 3245 with high current output
Power-up / Reset	DIO in input mode
Pulse Width Modulators	Up to 4 24-bit circuits configurable 0-100% duty cycle On/off control Programmable polarity
Counter / Timers	4 32-bit circuits configurable Programmable
Input power	+3.3VDC +/-5%
Power consumption	100mA @ 3.3V
Software drivers	Windows 7, XP, CE Linux 2.6.16, 2.6.27, 2.6.31, 2.6.32
Universal Driver	Support for all functions
Form Factor	PCIe MiniCard full size

Dimensions	50.95 x 30mm (2 x 1.18")
Operating temperature	-40°C to +85°C
Operating humidity	5% to 95% noncondensing
MTBF	tbd
Weight	8.5g (0.3oz)
RoHS	Compliant

Models and Accessories

DS-MPE-GPIO

Available Models:

Availability:

DS-MPE-GPIO 36-channel PCIe MiniCard DIO Module Available [Buy Now](#)

Cables and accessories

Available Models:

Availability:

[CK-DAQ02](#) Cable Kit, DS-MPE-GPIO/DAQ0804, Qty 2 6980501 DAQ Cables

[6980501](#) Cable, DAQ, 1.25mm 2x10 to 2mm 20 Pin IDC Skt, 12"L Ribbon

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