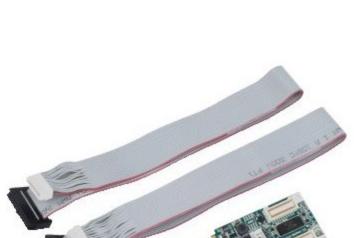
DS-MPE-GPIO 36 Channel Digital I/O PCIe MiniCard







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

Sofware configurable pull-up/pull-down

+3.3VDC input power

Latching connectors for increased ruggedness

Support for Windows 7, XP, CE, and Linux 2.6

Universial Driver support for all functions

Operating temperature -40°C to +85°C

PCIe MiniCard full size form factor (50.95 x 30mm)

Description

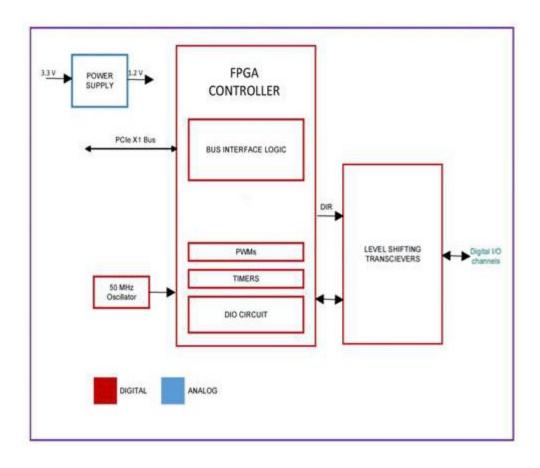
The DS-MPE-GPIO is a rugged, low cost 36-channel digital I/O PCIe MiniCard module that is ideal for digital I/O expansion in embedded and OEM applications.

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 | Software configurable | | |
| Transceivers | 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:

DS-MPE-GPIO 36-channel PCIe MiniCard DIO Module Available

Please login or signup for an online quote request.

cables and accessories available models: CK-DAQ02 Cable Kit, DS-MPE-GPIO/DAQ0804, Qty 2 6980501 DAQ Cables 6980501 1.25mm 20 Pin IDC

Please login or signup for an online quote request.

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