DS-MPE-GPIO

PCle MiniCard I/O Expansion Module with Digital I/O & FPGA

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.

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.

Rugged Design
Extended temperature capability (-40°C to +85°C) enables the board to operate in environments with extreme temperature swings, such as vehicles or outdoor installations.

Specifications
- Number of DIO: 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 resistors
- +3.3VDC input power
- Latching connectors for increased ruggedness
- Support for Windows 7, XP, CE, and Linux 2.6.xx
- Universal Driver support for all functions
- PCIe MiniCard full size form factor (50.95 x 30mm)
- Operating temperature of -40°C to +85°C

Ordering Information
- DS-MPE-GPIO: 36-channel Digital I/O PCIe MiniCard Module with cable kit
- CK-DAQ02: Cable Kit with two GPIO cables

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