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module solutions

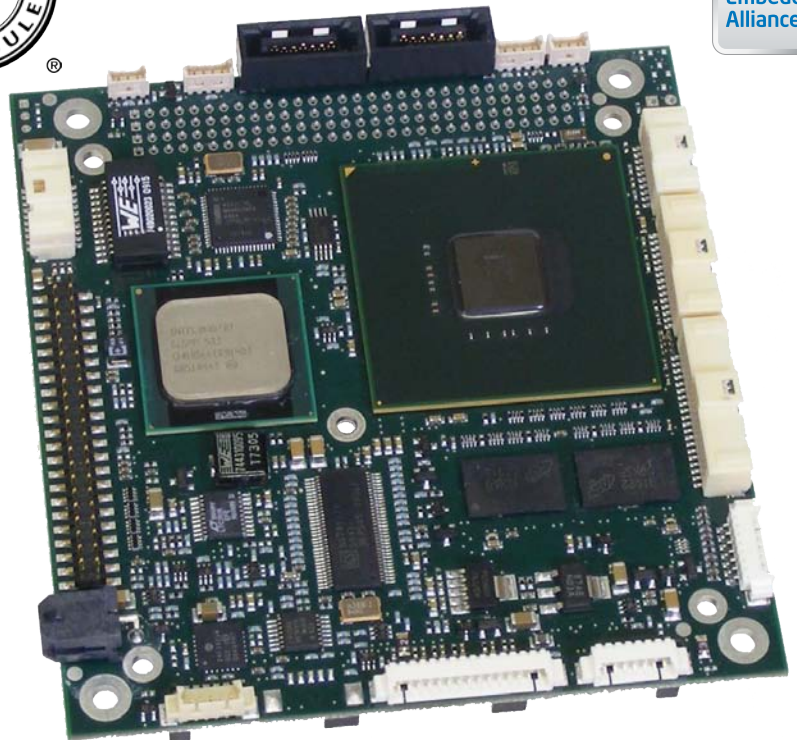
APPLICATIONS

The M2 CPU board was designed as a low power board with an excellent performance-per-watt ratio, powered by the latest Intel® technology.

The PCI/104-Express™ compliant M2 board finds its field of work in desktop and mobile devices.

- Rugged Industrial Systems
- Medical Solutions
- Automatic Control Panels
- Information Systems
- Measurement & Quality Control
- Public Terminal

M2 CPU PCI/104-Express™ Board



- ▶ Powered by the latest Intel® Atom™ technology
- ▶ Designed for the special needs of fanless operation under industrial temperature conditions from -40°C to +85°C
- ▶ Up to 1 GB DDR2 memory supports 400 MHz and 533 MHz FSB
- ▶ The M2 board supports up to 4 PCI Express® lanes and 32-bit PCI™ bus
- ▶ Gigabit Ethernet, Serial ATA, Parallel ATA with optional SSD, 24-bit single channel LVDS on board
- ▶ Three RS-232 ports, one RS-422 port and up to six USB ports on board
- ▶ SB and LPC bus support
- ▶ ATX or +5 V single power supply
- ▶ Works with standard components according to PCI/104-Express™ specification
- ▶ The PROFIVE® M2 is ready for various operating systems and for fanless operation
- ▶ Design, Production and Support "Made in Germany"

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LIFE SUPPORT APPLICATIONS

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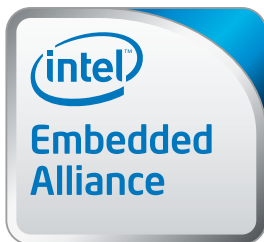
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M2 CPU PCI/104-Express™ Board

CPU for industrial temperature grade	Intel® Atom™ processor Z520PT / 1.33 GHz / 512 KB cache / 533 MHz FSB Z510PT / 1.1 GHz / 512 KB cache / 400 MHz FSB
CPU for standard temperature grade	Intel® Atom™ processor Z530P / 1.6 GHz / 512 KB cache / 533 MHz FSB Z510P / 1.1 GHz / 512 KB cache / 400 MHz FSB
Chipset for industrial temperature grade	Intel® System Controller Hub US15WPT with FSB supports 400 MHz and 533 MHz
Chipset for standard temperature grade	Intel® System Controller Hub US15WP with FSB supports 400 MHz and 533 MHz
Max. memory	Up to 1 GB DDR2 memory supports 400 MHz and 533 MHz FSB
PC/104™ form factor	Yes
PCI/104-Express™	Yes
PCI Express® lanes	Up to 4 lanes on PCI Express® bus connector
32-bit PCI™ bus	Yes
Parallel ATA interface	Yes, on internal 2mm IDE header and for optional SSD
Gigabit Ethernet	Yes
SM bus	Yes, on PCI Express® bus connector
USB 2.0 support	Up to 6 ports
PCI™ bus connector	Yes
LVDS interface	Yes, 24-bit single channel LVDS
DVI	Optional
Sound	Optional HD Audio connector
Serial ATA	Optional
PS/2 keyboard/mouse port	Yes
Serial port	Yes, three RS-232 and one RS-422
Power supply	+5V single supply or ATX power and control signals
Max. operating temperature	-40°C to +85°C ambient industrial grade 0°C to +60°C ambient standard grade
Fanless	Designed for fanless operation
Size approx.	90 mm x 96 mm



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