



**p . r . o . f . i . v . e**

**module solutions**

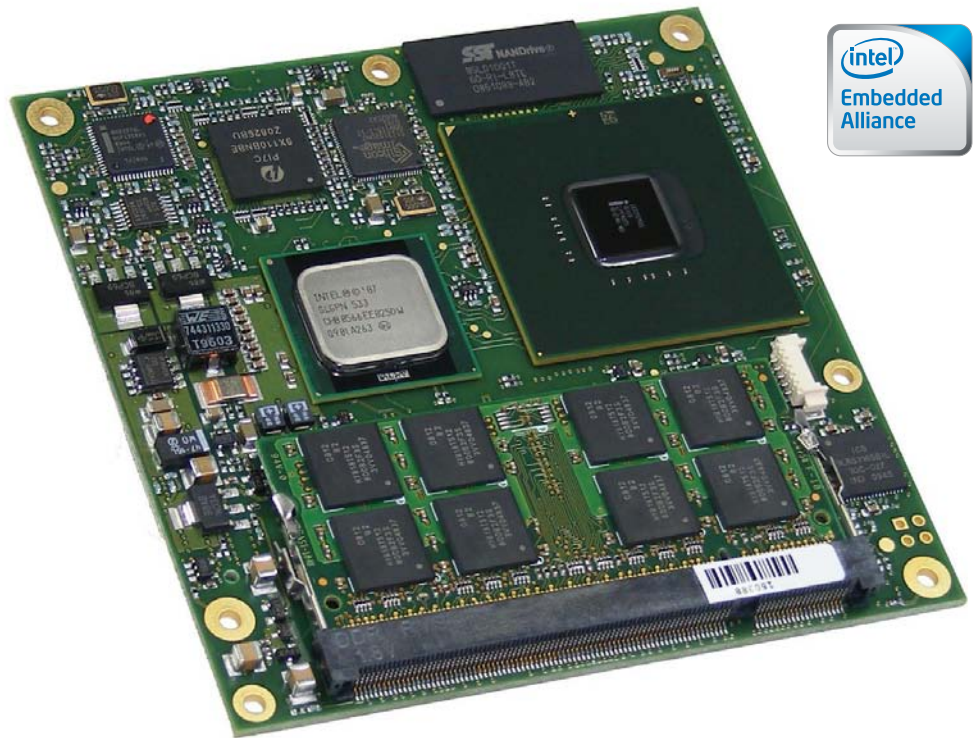
## APPLICATIONS

The P14 COM Express® was designed as a low power board with an excellent performance-per-watt ratio, powered by the latest Intel® technology.

The P14 COM Express® finds its field of work in desktop and mobile devices.

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

# P14 COM Express®



- ▶ Powered by proven Intel® Atom™ technology
- ▶ Designed for the special needs of fanless operation under industrial temperature conditions from -40°C to +85°C
- ▶ Up to 2 GB DDR2 memory supports 400 MHz and 533 MHz FSB
- ▶ The P14 board supports up to 4 PCI Express® lanes and 32-bit PCI™ bus
- ▶ Gigabit Ethernet, Parallel ATA with optional SSD, 24-bit single channel LVDS on board
- ▶ Up to eight USB ports on board
- ▶ Optional two Serial ATA interfaces
- ▶ Works with standard carrier board according to PICMG® COM Express® specification
- ▶ High Definition Audio interface
- ▶ The PROFIVE® P14 is ready to support various operating systems
- ▶ Design, Production and Support "Made in Germany"

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## specifications

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#### LIFE SUPPORT APPLICATIONS

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# P14 COM Express®

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
COM Express® pin out	Type 2 version
Max. memory	Up to 2 GB DDR2 memory support
PCI Express® lanes	Up to 4 PCI Express® lanes
32-bit PCI™ bus	Yes
Serial ATA interfaces	2 (Option)
Parallel ATA interface	1
Solid State Drive	Up to 4 GB (Option)
Gigabit Ethernet	Yes
SM / LPC bus	Yes
USB ports	Up to 8 (1 client port optional)
Analog VGA interface	Yes (Option, shared with SDVO interface)
LVDS interface	Yes, 24-bit single channel LVDS
Serial DVO interface	Yes, shared with VGA interface
Sound	HDA interface
Max. operating temperature	-40°C to +85°C ambient industrial grade 0°C to +60°C ambient standard grade
Type	COM Express® Compact module
Size approx.	95 mm x 95 mm

