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module solutions

APPLICATIONS

The P45 COM Express® is a full PCI™ compatible CPU module offering the highest integration of functions, features and performance implemented for industrial applications.

The P45 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

P45 COM Express®

COM Express®



- ▶ Powered by the latest technology including the Intel® Core™ 2 Duo processor
- ▶ Up to six PCI Express® lanes and a 32-bit PCI™ interface are supported
- ▶ Full PCI Express® and PCI™ compatible CPU module
- ▶ The Mobile Intel® 945GME Express Chipset integrates graphic functions to support Analog VGA, Serial DVO and 24-bit LVDS interfaces
- ▶ Special features for industrial applications have been integrated into the PROFIVE® P45 BIOS
- ▶ Supports up to 4 GB DDR2 memory
- ▶ Two Serial ATA interfaces, one Parallel ATA interface and eight USB 2.0 ports are on board
- ▶ Works with standard carrier board according to PICMG® COM Express® specification
- ▶ Additional Ethernet connectivity options and AC'97 interface
- ▶ The PROFIVE® P45 is ready to support various operating systems
- ▶ Design, Production and Support "Made in Germany"

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LIFE SUPPORT APPLICATIONS

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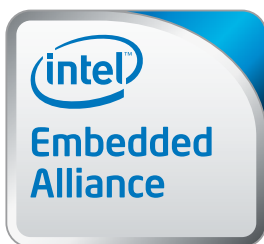
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P45 COM Express®

CPU	Intel® Core™ 2 DUO processor support up to 2.16 GHz
Chipset	Mobile Intel® 945GME Express Chipset
COM Express® pin out	Type 2 version
Max. memory	Up to 4 GB DDR2 memory support
PCI Express® lanes	Up to 6 PCI Express® lanes
32-bit PCI™ bus	Yes
Serial ATA interfaces	2
Parallel ATA interface	1
10/100 Mbit Ethernet	Yes (Option)
Gigabit Ethernet	Yes (Option)
LPC interface	Yes
SM bus	Yes
USB 2.0 ports	8
Analog VGA port	Yes
LVDS interface	Yes, 24-bit dual channel LVDS
TV OUT	Yes
Serial DVO interface	Yes, shared with PCI Express® graphics interface
PCI Express® graphics interface	Yes, shared with Serial DVO interface
Sound	AC'97 interface
Max. operating temperature	0°C to +60°C ambient or 0°C to +70°C at any point on the surface
Max. storage temperature	-20°C to +100°C
Type	COM Express® Basic module
Size approx.	125 mm x 95 mm



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