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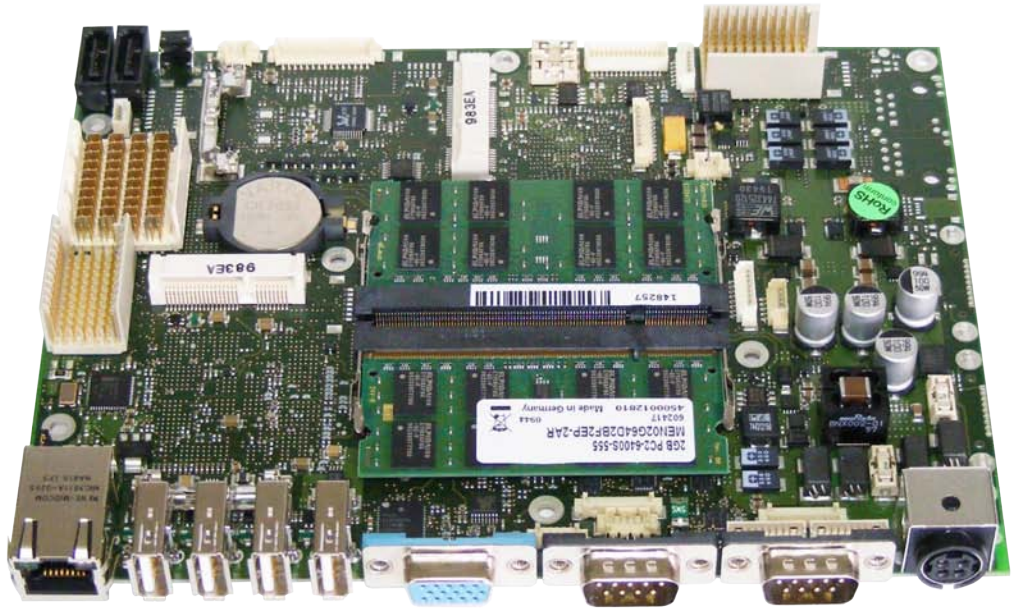
fanless solutions

APPLICATIONS

Designed for fanless applications, the Panel Board F12 single board computer finds its field of work in stationary and mobile devices.

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

Panel Board F12



- ▶ Powered by the latest Intel® Atom™ processors and the Intel® 82801HM I/O Controller
- ▶ Allows simultaneous use of UMTS and WLAN for extended router applications
- ▶ Two PCI Express™ Mini Card sockets, one prepared with SIM Card reader
- ▶ Analog VGA, 18-bit single channel LVDS and backlight control
- ▶ Onboard Touch Panel controller for 4-wire touch screens (optional 8-wire support)
- ▶ Supports the Intel® Atom™ Dual Core processor D510
- ▶ One Gigabit Ethernet port, two Serial ATA ports, up to seven USB 2.0 host ports, two RS-232 ports, two RS-422 ports and two CAN bus ports on board
- ▶ Supports up to 2 GB DDR2 memory
- ▶ 4-channel High Definition Audio and headphone connector
- ▶ Designed for fanless operation
- ▶ Connectors for daughter board solution available
- ▶ Design, Production and Support "Made in Germany"

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LIFE SUPPORT APPLICATIONS

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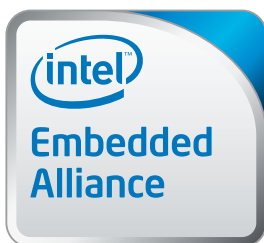
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Panel Board F12

CPU	Single Core Intel® Atom™ processor D410 / 1.66 GHz / 512 KB cache Dual Core Intel® Atom™ processor D510 / 1.66 GHz / 1 MB cache
Chipset	Intel® 82801HM I/O Controller
BIOS	UEFI-BIOS
Max. memory	Up to 2 GB DDR2 memory supports 667 MHz
PCI Express® Mini Card	Up to 2 PCI Express® Mini Cards One prepared with SIM card reader
PCI Express® lanes	Up to 4 PCI Express® lanes
Serial ATA interfaces	2
Gigabit Ethernet	1
RS-232 ports	2
RS-422 ports	2
CAN bus ports	2
SM and LPC bus	Yes
USB ports	7 USB 2.0 host ports
LVDS interface	Yes, 18-bit single channel LVDS with backlight connector
Analog VGA connector	Yes
Sound	4-channel High Definition Audio and headphone connector
Health monitoring and management	Controllable fan, hardware monitoring, backlight control and Watchdog
Power supply	8 V - 24 V single supply, extendable to 8 V - 32 V, EMI filtering on board
Touch controller	Yes, supports 4- and optional 8-wire touch panels
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
Fanless	Designed for fanless operation
Size approx.	180 mm x 135 mm



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