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fanless solutions

APPLICATIONS

Designed for fanless applications, the Panel Board F15 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 F15



- ▶ Powered by proven technology with support for Intel® Pentium® M and Celeron® M processor up to 1,4 GHz
- ▶ Supports up to 2 GB DDR2 memory
- ▶ The Mobile Intel® 915GME Express Chipset integrates graphic functions to support DVI-I and 18-bit LVDS interface
- ▶ Onboard touch panel controller for 4- or 8-wire touch screens
- ▶ Onboard AC'97 codec with Line IN, Aux IN, Micro IN, Line OUT and SPDIF OUT
- ▶ Intel® ICH7M I/O controller for overall interface solution
- ▶ Up to 4 PCI Express® lanes and a 32-bit PCI™ interface are supported
- ▶ Two Serial ATA ports, up to eight USB ports and two COM ports on board
- ▶ Gigabit Ethernet, SM and LPC bus for communication and control
- ▶ Connectors for daughter board solution available
- ▶ Design, Production and Support "Made in Germany"

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LIFE SUPPORT APPLICATIONS

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Panel Board F15

CPU	Intel® Celeron® M processor 600 MHz / 512 KB cache Intel® Celeron® M processor 1.0 GHz / 512 KB cache Intel® Pentium® M processor 1.4 GHz / 2 MB cache
Chipset	Mobile Intel® 915GME / 910GML Express Chipset with Intel® ICH7M
BIOS	Award BIOS from Phoenix
Max. memory	Up to 2 GB DDR2 memory supports 400 MHz and 533 MHz FSB
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
32-bit PCI™ bus	Yes
Serial ATA interfaces	2
Parallel ATA interface	1
Gigabit Ethernet	Yes
LPC interface	Yes
SM bus	Yes
USB 2.0 ports	Up to 8
COM ports	2
DVI-I	Yes (DVI and Analog VGA)
LVDS interface	Yes, 18-bit dual channel LVDS with backlight connector
CRT connector	Yes (instead of DVI-I connector)
Serial DVO interface	Yes, over Board-to-Board connector
Sound	Onboard AC'97 codec
Health monitoring and management	Controllable fan, hardware monitoring, backlight control and Watchdog
Power supply	8 V - 20 V single supply, EMI filters on board optional battery solution
Touch controller	Yes, supports 4- and 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.	135 mm x 180 mm



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