

## APPLICATIONS

The PROFIVE® P11 was designed as a low power board with an excellent performance-per-watt ratio, powered by latest Intel® technology.

The P11 finds its field of work in desktop and mobile devices.

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

## PROFIVE® P11

a COM Express® mini based module



- ▶ Powered by 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 down with 800 MHz support
- ▶ The P11 board supports up to 3 PCI Express® lanes
- ▶ Gigabit Ethernet and 24-bit single channel LVDS on board
- ▶ Up to six USB host ports and one USB client on board
- ▶ Two Serial ATA interfaces and optional SSD on board
- ▶ High Definition Audio interface
- ▶ Works with standard carrier boards Type 1 or Type 10 according to the PICMG® COM.0 specification
- ▶ The PROFIVE® P11 is ready to support various operating systems
- ▶ Design, Production and Support "Made in Germany"

The information contained in this document has been carefully checked and is believed to be reliable. However, E.E.P.D. GmbH makes no guarantee or warranty concerning the accuracy of said information and shall not be responsible for any loss or damage of what ever nature resulting from the use of, or reliance upon, it. E.E.P.D. does not guarantee that the use of any information contained herein will not infringe upon the patent, trademark, copyright or other rights of third parties, and no patent or other license is implied hereby.

Intel and Intel logo are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries.

This document does not in any way extend E.E.P.D.'s warranty on any product beyond that set forth in its standard terms and conditions of sale. E.E.P.D. reserves the right to make changes in the products or specifications, or both, presented in this publication at any time and without notice.

**LIFE SUPPORT APPLICATIONS**

E.E.P.D.'s products are not intended for use as critical components in life support appliances, devices or systems in which the failure of a E.E.P.D. product to perform could be expected to result in personal injury.

All mentioned trademarks are registered trademarks of their owner.

© 2014 by E.E.P.D. GmbH. All rights reserved.

March 2014 - Version 1b

# PROFIVE® P11

CPU for industrial temperature grade	Intel® Atom™ processor E620T / 600 MHz Core / 512 KB cache / 800 MHz memory E640T / 1.0 GHz Core / 512 KB cache / 800 MHz memory
CPU for standard temperature grade	Intel® Atom™ processor E620 / 600 MHz Core / 512 KB cache / 800 MHz memory E640 / 1.0 GHz Core / 512 KB cache / 800 MHz memory
Chipset	Intel® Platform Controller Hub EG20T
BIOS	UEFI-BIOS
COM Express® pin out	Type 1 or 10 (PICMG® COM.0 specification)
Max. memory	Up to 1 GB DDR2 memory down
PCI Express® lanes	Up to 3 PCI Express® lanes
Serial ATA interfaces	Up to 2 (shared with SSD)
Solid State Drive	Up to 4 GB (Option)
Gigabit Ethernet	Yes
SM / LPC / I <sup>2</sup> C bus	Yes
USB ports	Up to 6 host ports and 1 client port
CAN bus	Optional CAN bus port (header or COM Express connector)
COM ports	2 TTL level COM ports (only Type 10 pin out)
LVDS interface	24-bit single channel LVDS up to 1280x768 px (pixel clock rate 80 MHz)
Serial DVO interface	Up to 1920x1080 px (pixel clock rate 160 MHz)
Sound	HDA interface
Max. operating temperature	-40°C to +85°C ambient industrial grade 0°C to +60°C ambient standard grade
Max. rel. humidity	95% @ 40 °C, non-condensing
Type	COM Express® mini based module
Size approx	84 mm x 55 mm

