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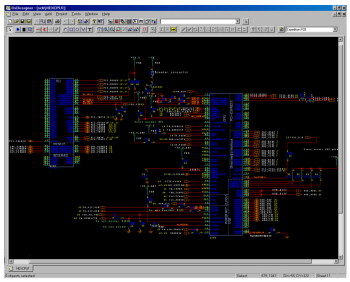
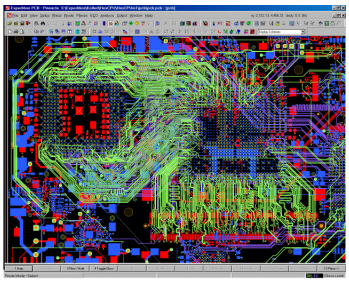
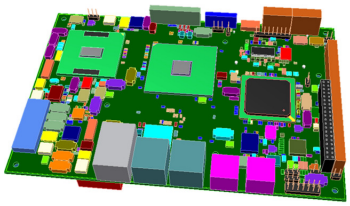
EMBEDDED CUSTOM DESIGN PC BOARD
FOR USER SPECIFIC APPLICATIONS



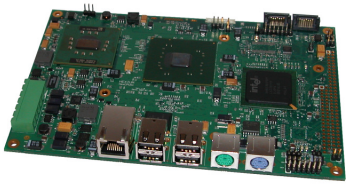
SCHEMATIC



LAYOUT



3D MODEL



THE FINISHED BOARD

It is a common problem, that the size and interfaces of PC compatible hardware elements do not meet the requirements of the developers. **Hexium** now offers developing and manufacturing custom design PC-compatible hardwares for its customers.

Why do you need our service?

Using the currently available hardware elements the manufacturing becomes more problematic, and the reliability of the product gets worse. The present-day PC based computers have many advantages for industrial and other user-specific applications, but they also have disadvantages: short life cycle and not appropriate interfaces.

Nowadays the life cycle of the non-industrial PC-s is about six months, the life cycle of industrial motherboards is about 1-2 years. Firms working in the field of application development however need hardware elements with at least 5 years of life-cycle, because every change in the hardware infers an authentication and applicability analysis. Recognizing the need for a solution for this problem, **Hexium** started developing user specific PC-compatible boards.

How we solve this problem?

The development of your new board starts with a discussion, where the required PCB size, the exterior interfaces and their positions are defined. After this, we make a prototype, a BIOS suitable for your board, make a software and hardware test and deliver it to you. When you are satisfied with the prototype, **Hexium** manufactures the required amount of boards. Since the reliability of the product is essential, we perform an electric and climatic test on the product before delivery.

When you place a follow-up order, we offer the exact same hardware and software for you. Through this, it is possible to avoid tests for such applications where an authentication of the device is necessary in the case of new hardware or software versions. (Only if the user software itself did not change.)

In the future you will be able to order peripherials beyond the conventional PC peripherials, like serial (RS232 or RS485), ethernet, USB or parallel ports.

Main features:

- *Highly integrated reliable devices*
- *User specific PCB geometry*
- *User specific connectors*
- *Application specific on-board peripherals*
- *Integrated special interface modules (A/D, I/O, communication)*
- *Intel 915GME chipset available*
- *Manufacturing of small amounts is avaliable*

For further information please visit **www.hexium.hu**.