

## • **Embedded PC extension for dSPACE MicroAutoBox II**

ECN Europe

Embedded World 2011: With the MicroAutoBox Embedded PC, [dSPACE](#) is offering an optional extension for the MicroAutoBox compact prototyping system that is tailored to the needs of current development trends. The Embedded PC provides an Intel Atom processor (1.6 GHz), 2 GB RAM, a 2.5" SATA hard or solid state disk drive and numerous interfaces for new application options.

While the actual control functions are being computed on the real-time prototyping unit in MicroAutoBox, additional applications such as telematics, digital road maps and camera-based object detection can run on the Embedded PC. These possibilities make it a powerful extension for developing advanced driver assistance, infotainment, telematics and image processing systems. An integrated Gigabit Ethernet switch guarantees that the host PC can address the real-time prototyping unit and the Embedded PC with the same Ethernet cable. The MicroAutoBox Embedded PC is planned to be available in summer 2011.



**[1] Picture: dSPACE**

The extended MicroAutoBox II is for in-vehicle use: It has a compact, robust design, is very simple to wire, and its real-time prototyping unit and Embedded PC can be switched on and off synchronously. For example, the system can be remote-controlled via the vehicle's ignition switch or by wake-up on Ethernet when connecting the host PC. The input voltage range, sleep-mode current consumption and overvoltage protection of the Embedded PC are all designed for permanent installation in a vehicle.

The modular concept of the MicroAutoBox Embedded PC basically allows other

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embedded PC processors to be used as alternatives to the Intel Atom processor. The front panel of the Embedded PC provides three Gigabit Ethernet connectors, four USB 2.0 interfaces and a DVI-I output for transmitting video data. The USB interfaces and DVI-I can be used to connect a touch panel, for example. To integrate WLAN, mobile communications or FireWire, the MicroAutoBox Embedded PC also has an internal PCIe MiniCard slot and an ExpressCard slot.

[SOURCE](#) [2]

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