Wireless communication in automotive applications

The box PC BL70W by MEN was especially developed for wireless applications in mobile markets. Due to its compliance to the E-mark requirements it is well suited for automotive applications in networks, construction vehicles, or agriculture machines.

The box PC comes with three slots for example for a CAN network (Photo: MEN)

THE BOX PC BY THE GERMAN COMPANY OFFERS SPACE for nine antenna slots in total as well as a multitude of application-specific I/O. Equipped with four PCI Express Mini Card slots controlling up to eight SIM cards and a GPS/GLONASS interface, the BL70W offers wireless communication. The box PC comes with Gigabit Ethernet via M12 connectors, five slots for serial I/O, or CAN network and two USB 2.0. Additionally it features three slots for CAN, BA-232, BA422/485, or Ibis.

The product was designed for fanless operation in an extended operating temperature range of -40 °C to +85 °C. Due to firmly soldered components and conformal coating it resists the typical influences of automotive applications like shock and vibration or humidity. Its characteristics are conform to the requirements of ISO 7637-2 (E-mark).

Hence it can be used as content or hotspot server, as diagnosis interface, or as fleet management control as well as for passenger information systems and all vehicle to land communication. The box PC has been equipped with an Intel Core i7-3517UE CPU running at 1.7 GHz. Be it one, two or four cores due to the scalability within the Intel i7 family the customers can size the computing power to their individual requirements. Thanks to the box PC system the BL70W can be expanded with PCI Express Mini Cards or different I/O at any time, saving a lot of time and cost for the customer. Price starting from EUR 2395 plus VAT for single units.