Rugged box computer accommodates latest G-Series APU

MEN Micro Inc. has enhanced its rugged box computer used for mobile applications to accommodate the latest G-Series Advanced Processing Unit (APU) from AMD. The modular BC50M (formerly the BC1) offers exceptional flexibility in a low power, maintenance-free design.

Useful in many rugged applications, including trains, commercial vehicles, airplanes and mobile machines and equipment, the BC50M is scalable, based on specific application requirements. Graphical performance and power consumption can be matched to the environment, while the unit's I/O can be easily customized with minimal overhead.

AMD's new Embedded G-T16R APU, now available in the BC50M, offers an average power consumption of just 2.3 W or a thermal design power (TDP) as low as 4.5 W. It complements the existing box computers in the series that feature AMD's 1.4 GHz dual-core Embedded G-T48N APU with Radeon HD 6310 graphics as well as the high-end Embedded G-T56N APU with Radeon HD 6320 graphics.

Two front panel-accessible DisplayPort channels, standard on the BC50M, support a maximum resolution of 2560 x 1600 pixels each with dedicated graphic cards and up to 1920 x 1200 pixels in combination with the AMD G-T16R APU. Antenna connectors for two PCI Express MiniCard slots are also conveniently located on the front panel.

Equipped with 2 GB of DDR3 SDRAM, the BC50M offers additional storage capabilities through an SD card and mSATA slot. A SATA hard disk or solid state drive can also be installed within the housing, if desired.

The box computer's special aluminum housing with cooling fins provides conduction cooling for the internal electronics. This allows for fanless operation at temperatures

from -40°C to +70°C, with operation in +85°C possible for up to 10 minutes.

The BC50M offers virtually limitless design flexibility, making it ideal for applications in mobile and safety-critical markets with high graphics demands. Up to six displays and a multitude of wireless functions—with 12 antenna connectors, for example—can be controlled.

In addition to being EN 50155 compliant and prepared for e1 certification, the BC50M offers a MTBF (mean time between failure) of more than 262,800 hours per IEC/TR 62380 (RDF 2000).

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