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Performance Technologies strives to deliver complete IP-based application-ready platforms, blades, and enabling software to reduce embedded engineers' development time and costs. Recognizing the demand for low-profile, appliance-like platforms for cost-reduced and space-limited deployments, the company launched the MTC5070, a second-generation MicroTCA platform. This award-winning product was designed with the company's application-ready philosophy in mind, including the need to deliver the most cost-effective carrier grade solution that meets competitive price targets associated with MicroTCA-based applications.

Numerous industries are adopting the standards-based MicroTCA architecture, including telecommunications, aerospace/defense, enterprise, industrial automation, and health care. Performance Technologies is proud to be an innovative leader, participating in standards steering committees and offering a purposefully wide breadth of highly integrated building blocks to simplify development and enhance the performance of our customers' applications.

– Performance Technologies

## Thin MicroTCA chassis, perfect for Humvee

For the past several years, I've noticed a proliferation of rack-mount equipment strapped down or shock-isolated in the back of Humvees. The reason is that the go-anywhere vehicle often serves as the platform for comms gear or other special-purpose electronic systems. But 4U-sized servers and drawer-sized boxes consume way too much space. The 1U MicroTCA MTC5070 from Performance Technologies seeks to change that with an innovative design meant to house six single AdvancedMC modules horizontally, not vertically. Flow-through cooling and internal baffles, complete with two sets of push-pull fans, allow 40 W per slot, a 300 W PSU, and a slim 1U height that's perfect for managed vehicle-mount installations.

Each of the six slots supports PCIe and Ethernet switching, and SATA/SAS slot-to-slot connectivity is available. An integrated dual 10/100/1000 GbE switch provides inter-box communications, while onboard MicroTCA carrier and shelf managers provide PICMG-style management, IMPI, and remote diagnostics. Performance Technologies offers numerous AdvancedMC cards (such as x86 or PowerPC processor nodes), storage, and video cards. The company's NexusWare Linux distribution meets Carrier Grade Linux (CGL) 4.0 requirements. The MTC5070 1U MicroTCA platform can run off of AC or DC power.

**Model: MTC5070**

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