Integrated Self-testing and Fault-tolerance Strengthen System Integrity

MEN Micro Inc. continues to expand its CompactPCI Serial offering with the G301, a rugged 3U Ethernet Switch that features four Gigabit Ethernet ports via RJ45 or M12 connectors in the front, complying with the PICMG CompactPCI Serial standard fully ratified at Embedded World 2011. An optional fifth Gigabit Ethernet port can be made accessible at the rear via the J6 connector as well.

Thanks to its integrated self-test mechanisms, the G301 proves very reliable in communication systems and supports full and half duplex, fast non-blocking store-and-forward switching and auto-negotiation as well as Layer-2 switching. The robust switch is fault-tolerant and restores itself automatically: If a link is temporarily unavailable, it will work again after the disturbance without any restart or reset.

The board supports Power-over-Ethernet (PoE) with Power Sourcing Equipment (PSE) for up to four external devices with a total power consumption of 28 W.

Using a configuration EEPROM, the G301 can be exactly tailored to each application's requirements (fixed management configuration). This includes features such as 802.1p priority and port-based priority, port-based VLAN or VLAN-IDs according to IEEE 802.1q.

The Ethernet switch has especially been developed for mobile communication in harsh environments and is certified for operation in the extended temperature range of -40°F to +70°C with +85°C possible for up to ten minutes according to railway standard EN 50155. All components are soldered to withstand shock and vibration and are prepared for conformal coating.

Pricing for the G301 is $553. Delivery is six weeks ARO.

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