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*Trusted ePlatform Services***ADVANTECH****UTCA-5503**

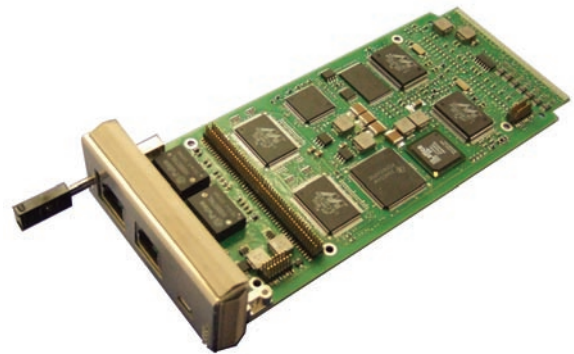
The Advantech UTCA-5503 MicroTCA Carrier Hub (MCH) is a single AdvancedMC Module that combines the control and management infrastructure and the interconnect fabric resources necessary to support up to twelve AdvancedMC's in a MicroTCA shelf. It switches the Primary Gigabit Ethernet (GbE) fabric on Common Options Fabric A and provides MicroTCA Carrier Management Controller (MCMC) functions to configure and control the elements.

The MCMC is the central authority in a MicroTCA Shelf. It monitors and controls the constituent AdvancedMCs. This control function makes use of IPMI links to each AdvancedMC, as well as presence detect, enable, and geographic address signals. When redundant MCH's are installed, failures in the management circuitry on one MCH can be handled by a failover to the other MCH. The MCMC Management LAN interface is available for optional remote management via a RJ-45 connector on the front panel or routed to the Base Fabric switch.

In its basic configuration, the MCH acts as the Gigabit Ethernet hub of a star network, providing centralized switching and high-speed connectivity to each AdvancedMC.

The switch on the MCH provides an unmanaged layer 2, non-blocking, low-latency GbE Switch. Two MCHs can be used to implement a dual-star topology required for reliability. This is further enhanced by a Gigabit Ethernet Update Channel Port between the two MCH's. A front panel RJ-45 or SFP provides further network expandability with GbE uplink ports for external interconnects.

The UTCA-5503 provides extension connectors between PCB1, 2 and 3 for enhanced processing functions such as Level 2/3 switch management, authentication and encryption, TPM for server/cluster security or remote management such as HPI over IP tunneling. It can also provide PCB3 switching for fat pipes PCIe, SRIO, GbE, or 10 GbE. A PCB2 module can be added for clock distribution and external clock connectivity. The front panel design offers flexibility for clock, I/O and alarm panel requirements.

**FEATURES**

- › Layer 2 Gigabit Ethernet switch for up to 12 AdvancedMCs on Common Options Fabric A
- › MCH Update Channel for carrier hub redundancy
- › Front panel Gigabit Ethernet uplink over RJ-45 or SFP
- › Pigeon Point-based MCMC with direct or switched 10/100 Management LAN port available on front panel
- › IPMB-0 / IPMB-L for complete carrier management
- › Built-in expandability for future pluggable enhancements
- › Switch management and extended fabric switching
- › Customizable clock module and front panel I/O
- › Compliant with PICMG MicroTCA.0 R1.0 specification