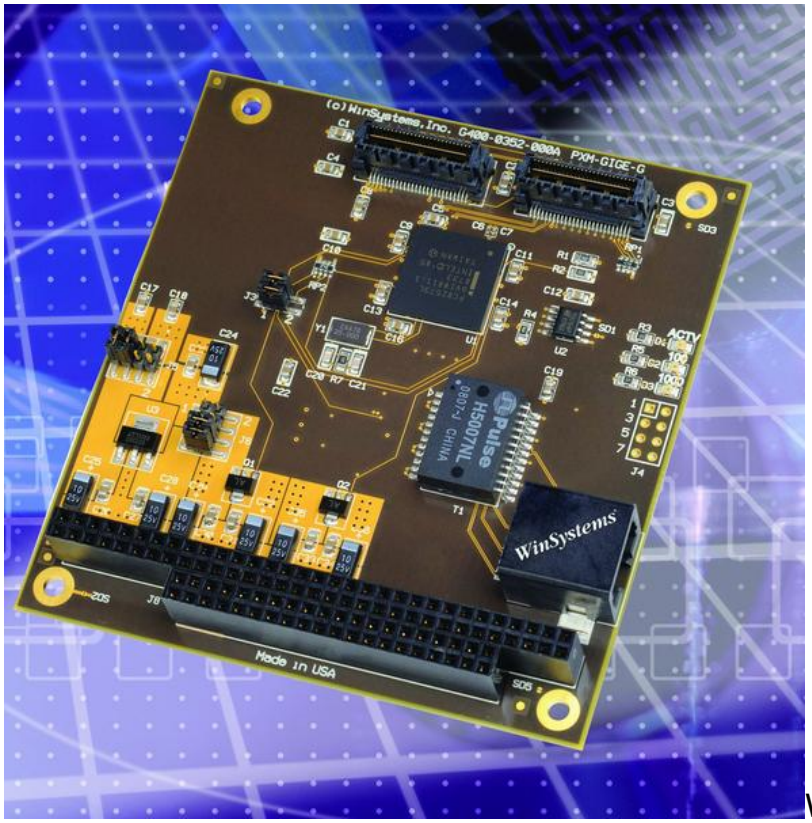
Module designed for high-speed networking connectivity



WinSystems announced a SUMIT-ISM compatible Gigabit Ethernet module designed for high-speed networking connectivity for small form factor, industrial embedded applications. The PXM-GIGE is a 90 x 96mm module that connects to 10/100/1000 Mbps networks using standard Category 5 (CAT5) unshielded twisted pair (UTP) copper cables. It offers a stackable PCI Express expansion on a PC/104 module with the addition of the industry-standard high-speed SUMIT connector. It plugs directly into WinSystems' PXM-C388-S, a 1.66HGz Atom N455-based SBC as well as other SUMIT-ISM compatible products available elsewhere.

The PXM-GIGE is based upon the Intel 82573 controller whose architecture is optimized to deliver both high-performance and PCIe bus efficiency with the lowest power and smallest size. The 82573 efficiently handles packets with minimum latency by combining a parallel and pipelined logic architecture optimized for Gigabit Ethernet and independent transmit and receive queues. Also IEEE 802.3ab Auto-Negotiation, IEEE 802.3x-compliant flow control, adaptive equalization, echo cancellation, and crosstalk cancellation are supported as well.

The PXM-GIGE module is wired to the x1 PCIe lane of the SUMIT-A connector and automatically selects the first available link. The PC/104 connector is supported for legacy stacks. It requires only +5 volts at 0.67A and will operate from -40C to +85C.

The PXM-GIGE supports Linux, Windows, and other x86-compatible real-time operating systems. Free drivers are available from the WinSystems' website.

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[1] http://www.winsystems.com