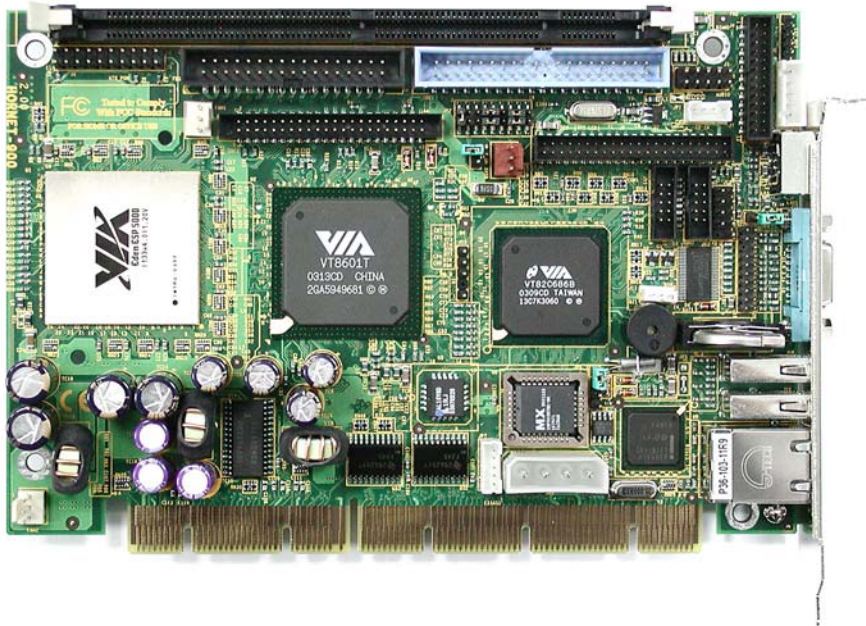# Hornet-900 Technical Data

Taiwan Mycomp will release a new PISA interface SBC card of HORNET 900, which integrates design, prevents the system incompatibility issues. HORNET 900 is available in four different variations aimed at small form factor or client desktop PCs, network servers, mobile systems and digital media devices. Each platform employs its own mix of VIA processor, chipset, networking, graphics, communications, networking and multimedia technologies that make them stand out above competing platforms in their respective target markets.

HORNET 900 is a low power, fanless, high performance, and highly integrated x86 platform that provides the most flexible, compatible, and cost-effective solution for building the emerging new generation of connected digital information & entertainment devices.

It combines a proven ultra low power sixth generation processor core with a choice of a variety of highly integrated North Bridge and South Bridge chips, as well as a broad spectrum of expansion options for enhanced communications, connectivity, and multimedia functions.

Features

- **Onboard Lower Power, Fanless VIA Eden/ C3 1.0GHz EBGA CPU or higher**
- **Built-in VIA North Bridge VT8601 Trident VGA engine, internal 4X AGP VGA performance supporting CRT, 24bit TFT LCD Panel and 18bit LVDS**
- **Single 10/100Base-T Ethernet onboard**
- **PCI AC'97 CODEC Audio, 4 bits TTL Digital I/O**
- **Supporting CompactFlash Type I, II**
- **Support onboard ATX/AT Power Supply Connection**

High performance

The HORNET 900 PISA SBC card features a 64-bit VIA Lower Power, Fanless Eden / C3 processors with on-die 128KB L2 pipelined burst cache (full CPU core speed).

It combines with its innovative design and advanced integrated AGP graphics engine providing rich graphics capabilities for running 2D/3D software for harsh industrial environment demanding. With 100/133MHz Front Side Bus and PC 66/100/133MHz SDRAM support and the system speed up to 512MHz.

One Intel 82559ER (or RTL 8100BL) Ethernet construct highly integrated and cost effective single-chip Fast Ethernet controller with 10/100 Mbps; 1 RJ-45 external connector is Link and Act signal header.

Other standard features included one RS232 and one RS232/422/485 serial port, a 16-level programmable watchdog timer, CompactFlash Type I/ II and so forth.

Hornet-900 Technical Data

CPU
- Onboard Lower Power, Fanless VIA Eden/ C3 1.0GHz CPU or higher; EBGA Package

Processor
- SMD EBGA

CPU FSB Speed
- 100/ 133MHz

Catch Memory
- Integrated L1 cache 128KB in EDEN CPU, with 64 KB instructions, and 64 KB data cache.
- Integrated L2 cache 64KB in EDEN CPU

System Chipset
- VT8601-100/133 MHz North Bridge
- VIA 82C686B South Bridge

Digital I/O
- 4 x TTL digital input bits
- 1 x TTL output bits

System Memory
- 1 x 168-pin DIMM Socket, up to 512MB

IDE Interface
- 2 x UDMA 33/66/100 IDE Interface
- 4 x IDE storage device

FDD
- Support two 5.25" (360K, 1.2MB) and/or 3.5" (720KB, 1.44MB, 2.88MB) of floppy disk drivers

Serial Port
- 2 x COM port
- 1 x RS-232 Port
- 1 x RS-232/422/485 Port (jumper selection)

Parallel Port
- 1 x bi-directional parallel port. (SPP, ECP and EPP)

Keyboard/Mouse
- PS/2 Keyboard & Mouse

USB
- 4 x USB 1.1 port – 2 on bracket, 2 by pin header

IrDA
- 1 x IrDA Tx/Rx header

VGA
- Chipset: Built -In VT8601 AGP4X Graphics Core into North Bridge VT8601 chipset, 2D/3D acceleration with DVD Playback
- Display Memory: 8MB Share Memory
- Display Type: support CRT VGA, and TFT/ LVDS LCD Panel Display, Simultaneous CRT & LCD display
- Resolution Type: 1600x1280x8bpp

Ethernet LAN
- Single 82559ER (or RTL 8100BL) 10/100 Base-T Ethernet Controller
- Ethernet Interface: 1 x RJ-45 on bracket

Audio
- AD1881 AC'97 codec
- Support Mic_ in, Line_ In, Speaker_ Out,

Expansion Socket
- 1 x CompactFlash (type I/ II)

BIOS
- Award BIOS

Supervisory
- 16-level Watchdog timer

OS Compatibility
- PC and MS-DOS™; Windows® 98 series; Windows® 2000; Windows® NT 4.0 and Windows XP; Linux Series

Power Requirements
- Supply Voltage: Standard ATX/AT Power

Environmental
- Operating Temperature: -20°C~ +70°C
- Humidity (RNC): 5% to 95%

Mechanical
- 185mm x 126mm

Reliability
- 24 months limited warranty
- 6 hours 60°C dynamic burn-in

Ordering Guide

	CPU	Ethernet LAN
Hornet-900/E5-R	Eden 533MHz	1 x RTL 8100BL
Hornet-900/E5-I	Eden 533MHz	1 x Intel 82559ER
Hornet-900/E7-R	Eden 733MHz	1 x RTL 8100BL
Hornet-900/E7-I	Eden 733MHz	1 x Intel 82559ER
Hornet-900/C1G-R	C3 1.0GHz	1 x RTL 8100BL
Hornet-900/C1G-I	C3 1.0GHz	1 x Intel 82559ER