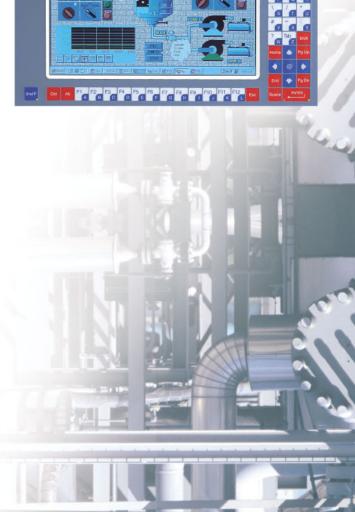# NCS Industrial PCs
Committed to excellence since 1975

O.S. XP Embedded on the flash disk Tornado-II PII/III also FANLESS IP65 Industrial Panel Mounted Computer

N.C.S. Computer Italia, based near Milano (Italy), have been leaders in Industrial Automation and Electronics since 1975, and have designed and manufactured INDUSTRIAL PC's since 1985. The new range of compact Systems, Tornado II (PII / PIII) is based upon the NCS-designed SINGLE BOARD COMPUTER "BPII" which uses the most advanced technology available. Our SBC NCS-740T was designed to work mainly in very hostile environments, where Commercial **PC's** would not absolutely guarantee a high reliability level. Our SBC is based upon a PII/III CPU (socket 370) – up to 1.4 GHz (tualatin) and DIMM memories up to 512MB. Moreover, the following functions are integrated on-board: IDE HDC up to 2 drivers HDD/CD-ROM/ZIP, FDC, DOC SOCKET, 4 serial ports (COM1/2/3-RS232C, COM4/RS232C-422-485 available on DB9), LPT1 (EPP/ECP), PS/2 MOUSE/KB, 2 USB's, LAN Ethernet 10/100 base TX (RJ45) and controller CRT/LCD interface AGP . Voltages, CPU Fan speed and temperatures can be monitored by BIOS and O.S. Its possible the **BOOT from USB FDD/HDD/CD-ROM/ZIP.** We offer models with TFT 6.4" and 10.4" (640x480), 8.4" and 12.1" (800x600), TFT 15" (1024X768), 18" and 22" (1600x1200) and with Power Supply 85-264 Vac, + 24Vdc. IP65 Front Panels can be in both aluminium and Stainless Steel. Our Systems TORNADO-II are available with CPU's from 5x86 upto PIII and the models with TFT 12,1" are available with an alphanumerics keyboard integrated on the Front Panel (380x270) with optional TOUCH SCREEN. Many options are proposed with our systems: EXP BUS/1-PCI, several models of industrial keyboards, TOUCH SCREEN, MOUSE, TRACK-BALL, FLASH DISK and TFT 10/12/15/18" WITH BRITENESS UP TO 1600 NITS.
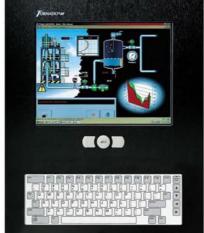
Microsoft® Windows® Embedded Partner

NCS COMPUTER GROUP

TORNADO-II SYSTEM side connectors

STANDARD PC FUNCTIONS OF THE BOARD NCS-740

- CPU Intel FC-PGA 370 Pentium III-M (Coppermine), or III - M (Tualatin), Celeron and compatible CPU up to 1.4GHz (with system bus frequencies of 66/100/133 MHz).
- CPU Socket Intel 370-pin Socket.
- BIOS Phoenix-Award BIOS with BOOT of connection USB with FDD/HDD/CD-ROM.
- Chipset VIA VT8606 + VT82C686B.
- Memory 1 168-pin DIMM up to 512 MB SDRAM.
- Enhanced IDE Support up to 2 IDE devices and Ultra DMA33/66/100 mode.
- FDD Interface support up to 2 floppy disk drives, max 2.88MB.
- Parallel Port multi-mode (Standard/EPP/ECP Modes).
- 4 Serial Ports: 3 Serial Ports RS-232 and 1 RS-232/422/485 (16C550 compatible).
- KB/Mouse Support PC/AT keyboard and PS/2 mouse.
- USB Support 2 ports USB with BOOT da FDD/HDD/CD-ROM.
- 7 DMA channels (8237 compatible).
- 15 interrupt levels (8259 compatible).
- Lithium battery for date CMOS PC99 ACPI / Flat Panel / CRT Interface.

FLAT PANEL / CRT INTERFACE

- Display Type Supporta non-interlaced CRT & TFT LCD (TTL, LVDS).
- Chipset Integrated Prosavage 4 2D/3D accelerator Supporta 8/16/32MB of Frame buffer full internal AGP 4X performance.
- Resolution Up to 1600X1200@32bit colors Ethernet Interface.

ETHERNET INTERFACE

- Chipset Realtek RTL8139C 10/100Base-T Fast Ethernet controller Onboard 10/100 Base-T RJ-45 connector Sound Interface.

SOUND INTERFACE

- Integrated AC97 Codec interface.
- Hardware SoundBlaster Pro for Windows DOS box and real-mode DOS legacy compatibility.
- Line Input/output, MIC Input Expansion Interface.

EXPANSION INTERFACE

- PCI Slot One 32bit PCI slot onboard H/W Monitoring.

H/W MONITORING

- On-board voltage monitors for CPU Vcore, VTT, +5V, +12V ,+3.3V.
- System health status detect.
- System temperature sensor.
- CPU temperature monitoring through flexible thermal sensor.

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