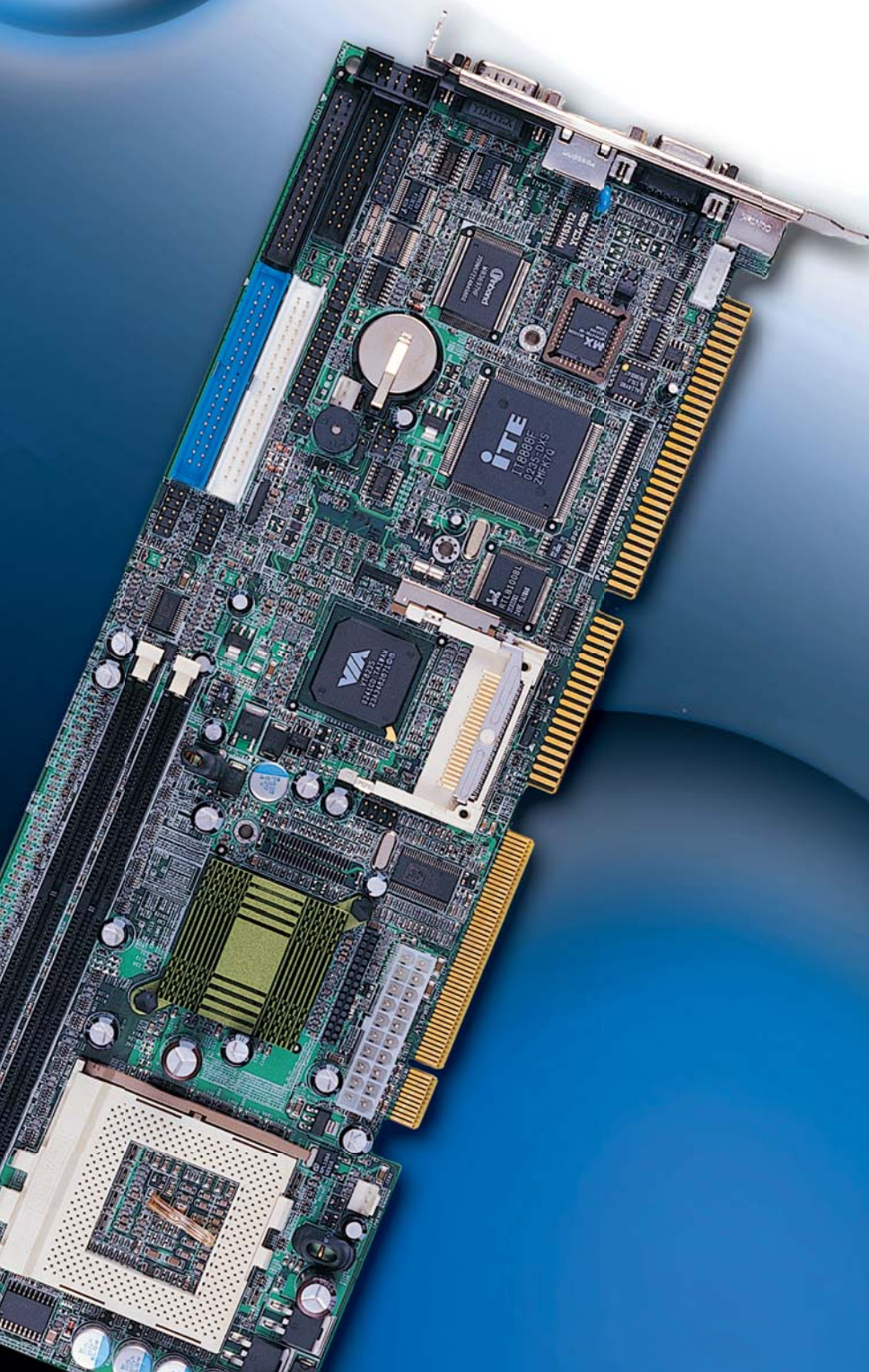# SBC

Prox-1688
Socket 370 Full-size CPU Card with VGA/LAN

Prox-1688 offers excellent performance and powerful functions, making it the one of best total solutions on the market.

Based on the Socket 370 design, the Prox-1688 supports Intel® Celeron™, Pentium® III and VIA C3 processors running up to 1.4GB. This full-size CPU card supports up to 2GB memory integrated two 184-pin DDR DIMM sockets. With an additional socket for the Compact Flash™ bootable IDE-compatible flash memory module, the Prox-1688 ensures exceptional expansion capabilities. Embedded with VIA CLE266 chipset, it can support multiple displays including CRT, DVI, and LCD with shared memory of 16MB SGRAM. Equipped with Realtek RTL 8100BL chip provides Prox-1688 10/100 Mbps Ethernet speed and Wake-on-LAN functions. The powerful functions and reliable performance are replies to customer responses and again, the proof of Protech Systems capability both in RD and manufacturing.

With other mainstream functions, the Prox-1688 also provides four USB 2.0 ports that enable high-speed serial communication up to 480Mbps. Two EIDE (UMDA-33/66/100/133) interfaces, one FDD, two serial ports, one parallel, one IrDA, one keyboard, mouse and speaker ports are also supported.

PROTECH SYSTEMS
It's a right choice

No. 24, Lane 365, Yang Guang St., Nei Hu District, Taipei 114, Taiwan, R.O.C.
Tel: +886-2-8751-1111
Fax: +886-2-8751-1199
Email: sales@protech.com.tw
http://www.protech.com.tw

Prox-1688 *Socket 370 P-III Full-size CPU Card with VGA/LAN*
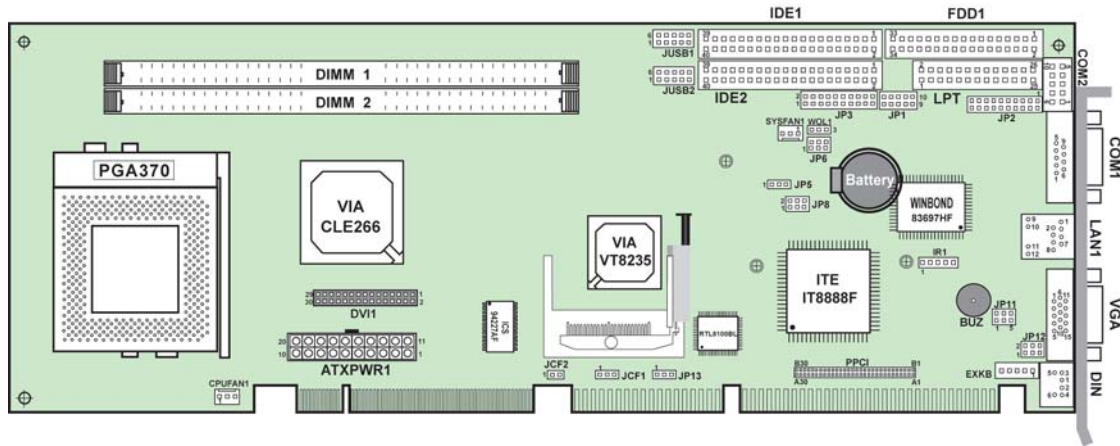
Specifications

CPU Type	Intel® Celeron™/P-III/Tualatin/VIA C3 processors
CPU Voltage	Auto detect
CPU Frequency	566MHz~1.X GHz & up reserved
Chipset	VIA CLE266, VT8235
DRAM	2 x 184-pin DDR DIMM (PC266 DIMM) up to 2GB
Cache	Built-in CPU
BIOS	Phoenix-Award PnP with VGA BIOS
I/O Chipset	Winbond W83697HF
IDE Interface	2 x EIDE (UDMA-33/66/100/133)
FDD Interface	1
Serial Port	2 x 16550 UART, COM2 for RS232/422/485
Parallel Port	1 x parallel (SPP/EPP/ECP)
Watchdog	16 level Watchdog Timer selectable with Reset/NMI
CMOS	Built-in VIA VT8235
Keyboard	Mini DIN connector & external connector
Mouse	Mini DIN connector (selectable w/ KB/Y-cable)
Speaker	Internal buzzer
IrDA	1 x IrDA (SIR)
VGA	Built-in VIA CLE266, 16M SGRAM for CRT & DVI

LAN	Realtek RTL8100BL, 10/100 Base-TX Ethernet 1 x RJ-45 Jack, supports Wake-on-LAN
USB	4 x USB 2.0
Bus Interface	ISA/PCI (PICMG Spec.), 1 x Compact Flash slot PPCI Bus optional for PPCI Daughter Board
Power Supply	Support ATX/AT power
Power Requirement	+5V and +12V
Hardware Monitor	Voltage, CPU temp. & cooling fan
Green Function	Controlled by hardware & software

Mechanical and Environment

Operation Temp.	0°C ~ 60°C, 32°F ~ 140°F
Storage Temp.	-40°C ~ 85°C, -40°F ~ 185°F
Humidity	20~90%
Vibration	2.5g acceleration over 5 to 2000Hz sine wave(p-p), 1 oct/min sine sweep
Shock	30g, 11 msec duration, half-sine shock pulse
Dimension	338.5mm x 122mm, 13.33" x 4.8"

Certificate: CE, FCC CLASS A

PERFORMANCE & POWER CONSUMPTION

CPU Type	Business Winstone 99	CPU Mark 99	3D Mark 2001 SE	Power Consumption +5V and +12V
Pentium® III 1GHz	44.9	88.7	911	7.7A / 500mA
Celeron™ 1.2GHz	36.4	98.3	814	6.5A / 500mA
VIA C3 1GHz	40.3	66.1	701	6.4A / 500mA

All of trademarks and brand names are the property of their owners. Trademark "Protech" is the property of Protech Systems Co., Ltd. All information contained in this document is subject to change without any prior notice. This catalog is copyrighted in Sep. 2003.

PROTECH SYSTEMS
It's a right choice