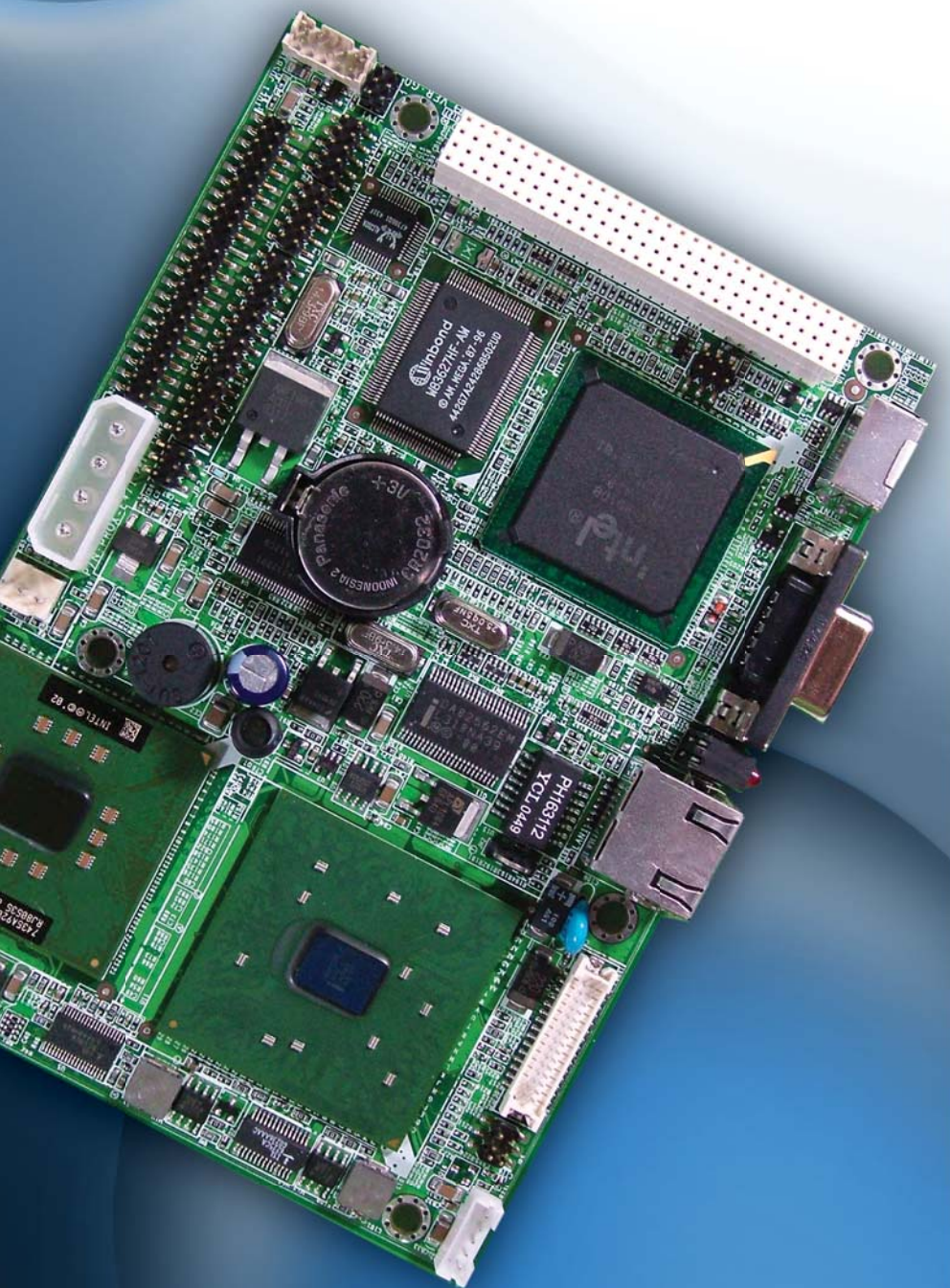# SBC

EB-471
ULV Celeron® M CPU Card w/ VGA/Sound/LAN

EB-471 The EB-471 is an ideal 3.5" embedded mini board for low power and fanless solution. It features with ULV Intel® Celeron® M processor, built-in the Intel® 852GM chipset which can support the 36-bit LVDS TFT LCD, CRT and TV-out functions, and a DDR266 SDRAM memory can run up to 1GB.

EB-471 can operate in the rough environment under temperature range from 0°C J to 60°C J without fan and require only +5V power supply. EB-471's high performance and low power consumption features make it become the best solution for the embedded systems.

2 x serials, 1 x IDE, 1 x KB/MS, 1 x 10/100 LAN, 2 x USB2.0, 1 x VGA, 1 x Audio, 1 x IrDA are all integrated on the EB-471. In addition, EB-471 also provides 1 x PC/104+ connector for further expansion applications.

EB-471 is an ideal solution for communications appliances, transaction terminal, interactive client, industrial automations and other applications with low power requirement.

PROTECH SYSTEMS
It's a right choice

Intel®
Communications
Alliance
Affiliate Member
B R O N Z E

ISO CERTIFIED
9001 **14001**

EB-471

ULV Celeron® M 3.5" Mini Board with VGA/Sound/LAN
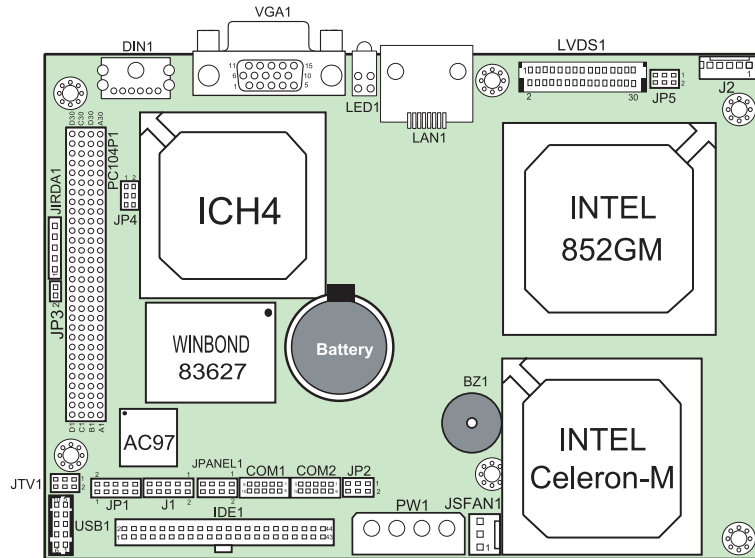
Specifications	
System	
CPU Type	Intel® Celeron® M processor
CPU Frequency	ULV 600MHz (non L2 cache)
Chipset	Intel® 852GM + ICH4
DRAM	1x200-pin DDR SO-DIMM, support DDR266 SDRAM up to 1GB
BIOS	Phoenix-Award PnP BIOS, with VGA BIOS
Watchdog	1~255 secs Watchdog timer selectable w/Reset/NMI
Power Supply	Support AT power
Power Requirement	+5V, +12V (Only +5V) (Only +5V: +5V only provide power for SBC, don't have enough power to support expansion card.)
Dimension	102mm x 145mm (4.02" x 5.71")

I/O Chipset	
IDE Interface	1 x 44-pin IDE (UDMA 33/66/100)
Bus Interface	PC/104+
Serial Port	2 x COM ports, COM1 for RS232, COM2 for RS232/422/485 (for 16550 compatible type of UART)
IrDA	1 (SIR)
Keyboard	Mini DIN connector or external connector

Mouse	Y-cable
LAN	Intel® 82562EM (10/100 Mbps)
Audio	AC '97 Codec, Realtek ALC202A with Line-in/Line-out/MIC
USB	2 x USB 2.0

Display	
Graphic	Built-in Intel® 852GM, share system memory, Support CRT, LVDS, TV-out
LCD Interface	18/36-bit LVDS

Environment	
OperationTemp.	0°~60°C(32°~140°F)
Storage Tmp.	-40°~85°C(-40°~185°F)
Humidity	Operation humidity 20~90%, storage humidity 20~95%

Ordering Information	
LB-471	3.5" SBC with Intel Celeron M ULV 600MHz CPU /VGA /LAN

PERFORMANCE & POWER CONSUMPTION

CPU Type	3D Mark 2001 SE Build 330	Business Winstone 2002	Winstone 2001	Power Consumption +5V / +12V or only +5
Celeron® M ULV 600MHz	1104	11.7	14.9	1.9 / 0.047 or 2.083

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