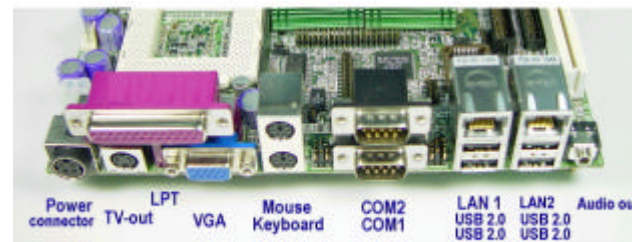
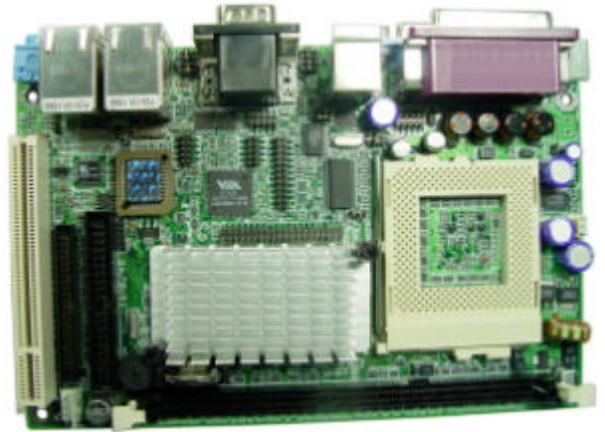


NASA-6822VLLA

- Support Low Power VIA 1Ghz Nehemiah CPU.
 - Low power 1Ghz CPU compares to Intel Celeron 1.7Ghz CPU
 - Chipset : VIA newest chipset CLE266 engine
 - DDR RAM : support Double Speed DDR memory up to 512MB
 - Hardware MPEG-II , AGP 8X, VGA, support LVDS & TTL LCD With 64MB share video RAM
 - Dual fast 100 / 10 Mbps Ethernet.
 - Audio Amplifier built on board supporting quality sound
 - 4 x Serial ports : 2 exposed, 2 hidden (3x RS232 + 1x RS232/422/485)
 - 4 x USB 2.0 (40 times faster than 1.1) and 1 x IrDA
 - PCI expansion slot on board
 - Support DC 19VDC power connector
 - 4.5" Mini EBX embedded board (125 x 190mm)
-
- Industrial and military grade EBX SBC card
 - Able to withstand high temperature
 - Anti vibration, anti shock design
 - Design to last for 20 years long life



Socket 370 SBC with AGP 8x / VGA / 64M VRAM, TTL LCD, LVDS LCD, 2 x LAN / Audio / 4xCOM / 4 x USB 2.0

Specifications

CPU : Low power 1Ghz CPU
Support Low Power 1Ghz Nehemiah CPU.
Its power consumption is only 13 watts.
Its speed can compare to P4 Celeron 1.7Ghz CPU

Front Side Bus (FSB) : 266 / 200 / 133 / 100
Supports FSB 266/ 200 / 133 / 100
and PC2100 / PC1600

Chipset, System – VIA CLE266 chipsets
VIA VT8623 / 8622 and 8235 chipsets
BIOS

BIOS : Phoenix Award BIOS, 256KB (Flash)
EPROM

DDR RAM Memory : 512MB
Support Double Data Rate (DDR) ultra high
speed memory up to 512MB

VGA :
AGP 8x , 64MB video RAM
Support CRT VGA, AGP 8X, 64MB Video share
memory, Hardware MPEG-II supporting 3D /
2D motion and movie pictures, LVDS, TTL
LCD panels

LCD – LVDS and TTL LCD
Support LVDS and TTL LCD panels including
TFT, STN, DSTN, mono flat panels

Ethernet : Dual LAN
Dual Realtek 8100L support Dual fast speed
Ethernet networking with auto-negotiation

Audio & Amplifier

Built in 5W audio amplifier to support high output
audio quality sound effect. With Microphone,
Speaker ports. No need to use external amplifier

Hardware MPEG-II : built on board
designed in hardware MPEG-II in order to
support very high speed 3D / 2D movie, DVD,
and video playback

Serial (COM) port - 4 x COM
4 x COMs (3x RS232 + 1x RS485/422/ 232)

USB - 4 x USB 2.0
4 USB 2.0 ports. USB 2.0 is 4000% faster than
USB 1.0 & 1.1. It is 480 Mb per second which is
faster than IEEE-1394.

IrDA port
Support 1 x IrDA infra-red remote port

PCI Expansion Slot
Built in 1 x PCI slot for expansion purpose

PCMCIA & CF slot
Custom-designed daughter board
With PCMCIA & CF slot and space
For HDD is available for option

2 Enhanced IDE with Ultra DMA
support 1 x 40pin and 1 x 44pin IDE ports.

LPT Parallel Port :
1 x LPT port support SPP, EPP and ECP mode.

Keyboard and Mouse :
A PS/2 Keyboard and a PS/2 Mouse port

Watchdog Timer

Software programmable watchdog timer
supported, select from BIOS

Real-time Clock
built-in super I/O with lithium battery backup
for 10 years of data retention. CMOS data
backup of BIOS setup and default.

Board Dimensions

4.5" Embedded mini EBX form factor.
Board size : 125 x 190 mm

Industrial Components

Use industrial & military grade parts that support
higher temperature up to 65 or even 70 degree C

Operating Temperature

0 to 65 degree Celcius

Optional items NASA-6822 :

1. Low power 1Ghz Nehemiah CPU
2. PCI Riser card
3. PCMCIA & CF daughter board
4. Power Supply : see below
5. Internal GPS Engine Board

Power Supply - optional

There are four types power supplies available
for customer's choice :

1. AC : 110 – 240VAC standard type
2. DC 12V : for taxi, car use
3. DC 24-48V : for bus, truck, boat
4. DC 72-240V : for special applications