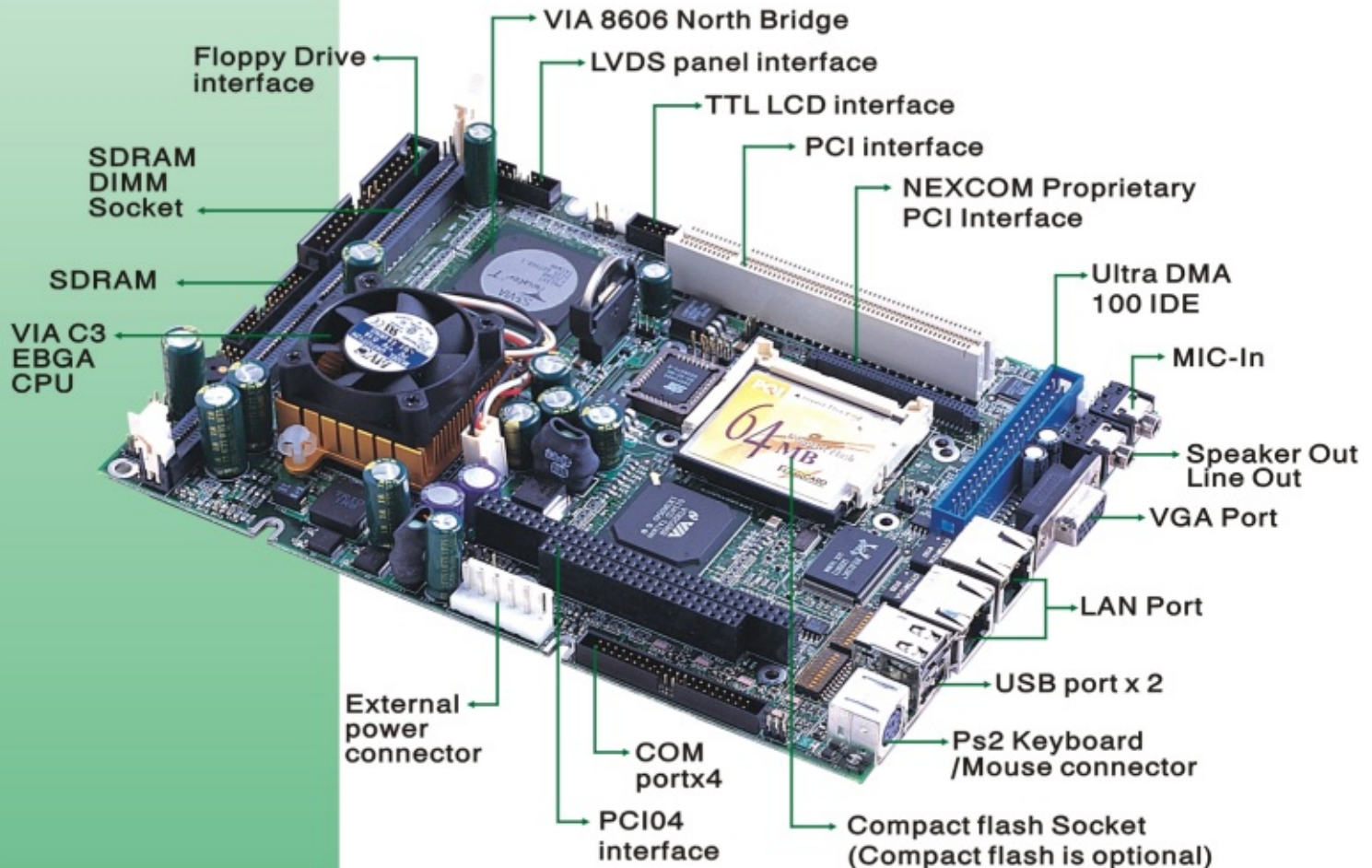


EBC 569

5.25" VIA C3 EBGA Low Power Embedded Controller with CPU/Video/LAN/Audio/LVDS LCD



Features

- ◆ VIA C3 EBGA 800+MHz CPU on board, FSB 100/133MHz
- ◆ CPU fan-less support by using VIA Eden series 400+MHz CPU
- ◆ Max. 512MB SDRAM, 168-pin DIMM Socket x1
- ◆ VIA Twister T8606/686B chipsets w/ 4x AGP VGA built-in
- ◆ 3D graphic, LVDS/TTL LCD interface
- ◆ Realtek 8139C 10/100 Base T/TX LAN x 2
- ◆ AC 97 ver. 2.0 Audio
- ◆ Compact Flash Socket

NEXCOM
<http://www.nexcom.com>



NEXCOM Taiwan
NEXCOM International Co., LTD.
19F, No. 716, Chung-Cheng Road, Chung-Ho,
Taipei Hsien 235, Taiwan, R.O.C.
Tel: 886-2-8228-0900
Fax: 886-2-8228-0906
e-mail: nexcom@nexcom.com.tw

NEXCOM UK
NEXCOM (UK) LTD.
Cromwell Business Center
14 Howard Way, Newport Pagnell,
Milton Keynes, MK 16 9QS U.K
Tel: 44-1908-21 88 77
Fax: 44-1908-21 88 87
e-mail: sales@nexcomuk.co.uk

NEXCOM USA
NEX Computers Inc.
46706 Fremont Blvd.
Fremont, CA 94538, U.S.A
Tel: 1-510-884-2248
Fax: 1-510-884-2158
e-mail: sales@nexcom.com

NEXCOM Germany
NEXCOM GmbH
Siemensring 44 o
47877 Willich-Muenchheide
Germany
Tel: 49-2154-48160
Fax: 49-2154-481610
e-mail: sales@nexcom-ipc.de

NEXCOM Japan
NEXCOM Japan Co., LTD.
10F, Nakagin-Shiroyama Bldg., 8-16-13,
Ginza Chuo-ku Tokyo, Japan 104-0061
Tel: 03-3524-4250
Fax: 03-3524-4252
e-mail: sales@nexcom-jp.com

EBC 569

Specifications

Specification

- 5.25" small form factor with Dimensions: 203mm(L) x 143mm(W)
- PCB : 6 Layer with double side

On Board CPU

- Onboard VIA C3 Processor EBGA Package with 128KB Level 1 and 64KB Level 2 Cache
- 800MHZ CPU on board, and future VIA C3 series CPU with EBGA Package
- CPU FSB 100/133MHZ
- CPU FANless feature with VIA Eden Series Ultra Low Power CPU 400MHZ, future speed up to 667+ MHZ

Main Memory

- One 168-pin DIMM. Support Max memory size to 512MB

BIOS

- Award System BIOS
- Advanced Power Management support
- Optional ACPI Support
- 4M bits flash ROM

Chip Set

- VIA 8606 (Twister T) 100 /133 MHz North Bridge
- VIA VT82C686B PSIPC PCI SUPER-I/O INTEGRATED PERIPHERAL CONTROLLER
- PCI V2.2 complied

On Board LAN

- Realtek RTL 8139C Ethernet Controller x 2
- Single Chip 10 /100 Base TX support, full duplex
- Complied with IEEE802.X
- Boot From LAN function
- Drivers support : DOS/Windows[®], Windows[®] 95/98/2000, Windows[®] NT4.0/ XP Netware[®], SCO Open Server[®] 5.0, Linux 7.2 or later, FreeBSD[®]
- RJ45 with LED connector x 2

On Board Audio

- VT82C686A and AC97 ver. 2.0 compliant interface, Multi-stream Direct Sound and Direct Sound 3D acceleration
- Audio Interface: CD audio In , Line In (Internal),Microphone In, Speaker out (with Amplifier)

On Board VGA

- VIA 8606 Integrated Savage4 2D/3D/Video Accelerator
 - › Optimized Shared Memory Architecture (SMA)
 - › 8 / 16 / 32 MB frame buffer using system memory
 - › Single cycle 128-bit 3D architecture
 - › Full internal AGP 4x performance
 - › Next generation, 128-bit 2D graphics engine
 - › High quality DVD video playback
 - › 2D/3D resolutions up to 1920x1440
 - › 3D Rendering Features
- Extensive LCD Support
 - › 36-bit DSTN/TFT flat panel interface with 256 gray shades support
 - › Integrated 110 MHz LVDS interface
 - › Support for all resolutions up to 1600x1200
- Drivers support : Windows[®] 95/98/2000, Windows[®] NT4.0/Win XP/ Linux.
- 15Pin D-Sub VGA Output,
- LVDS Interface Connector x 1
- TTL LCD Interface Connector x 1

On Board IDE Interface

- VIA 686B South Bridge Integrated UltraDMA-33/66/100 master mode EIDE controller
- Support UltraDMA-33/66/100 IDE with 40 pin connector x1
- Internal Compact Flash socket x 1

On Board PCI/PC104 Interface

- One 32 bit/33MHz NEXCOM Proprietary PCI Interface for NEXCOM EBK Module upgrade.
- PC 104

On Chip and On Board I/O

- SIOx 4, with 4x16C550 UARTs, 40 pin 2.0 header with housingx 1; one for RS422/485
- PIOx 1, bi-directional, EPP/ECP support, 26 pin connectorx 1
- Floppy Disk controller : 34 pin connectorx 1
- 6 pin mini DIN connectorx 1, for PS/2 keyboard/mouse
- On board USB port x 2
- On Board buzzerx 1
- Digital I/O: 8 x TTL DIO
- On board 3 pin header for I²C, one pin for GND
- On board 5 pin header for IrDA
- On Board 2 pin header for Reset SW
- On Board 4 pin header for Power SW (ATX Mode)
- Power Header x 1 for LCD Panel Backlight
- COM reserved the RING pin to power Touch Screen LCD (Jumper select 5 or 12V or ring).
- 3 pin Power Connector for CPU FAN
- 2 Pin IDE Active LED Header

Real Time Clocker

- On chip RTC with battery back up
- External Li Battery x 1

Watchdog Timer

- Watchdog timeout can be programmable by Software from 0.5 second to 64 second.

System Monitor

- Derived from Super IO to support system monitor.
- 5 voltage (For +3.3V, +5V, +12V, Vcore and 2.5V)
- One Fan speed (For CPU)
- Two temperature
- Drivers support : Windows[®] 95/98, Windows[®] NT4.0/2000

Power Source & Power Requirements

- 6 PIN Power Input Connector

PIN Define	Voltage	Power Requirement
PIN 1	+5V	6A (typical)
PIN 2	+5V	
PIN 3	GND	--
PIN 4	GND	--
PIN 5	GND	--
PIN 6	+12V	1A (typical)

- 3.3V is converted from +5V.
- Accessory Power Converter Cable:
 1. Two 4P to 6P (For AT Power Supply)
 2. ATX Power Connector to 6P+ 2 Pin Power SW (For ATX Power Supply)
 3. Optional Power Module (EBK DC512)to support DC power (16Vdc ~ 24Vdc input)to support ACPI function

Environments

- Operating temperatures: 0°C to 60°C
- Storage temperatures: -20°C to 80°C
- Relative humidity: 10% to 90% (Non-condensing)

Certification

- CE approval
- FCC Class A

Order Information

- EBC 569 - 5.25" Low Power Embedded Board with on board 800+MHZ CPU
- EBC 569LP - 5.25" Ultra Low Power Embedded Board with on board 400+MHZ CPU