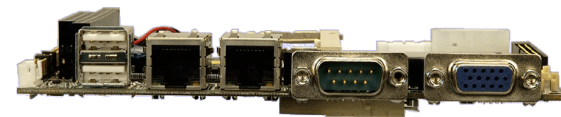
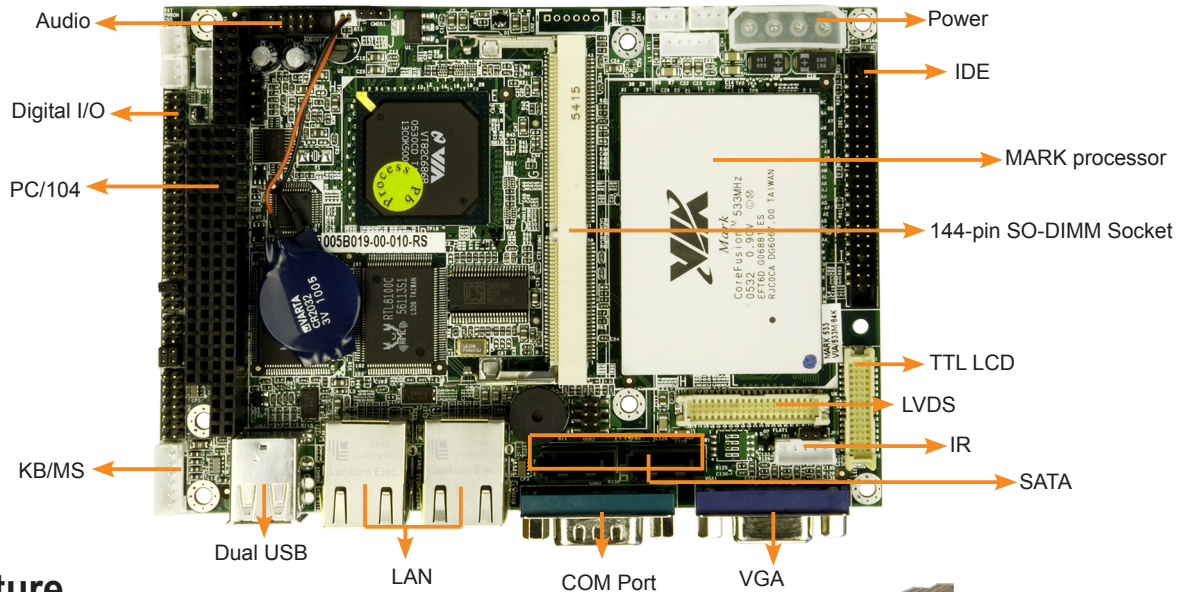


# WAFER-MARK

Direct ISA Solution with  
RAID 0,1 JBOD function &  
Complete Panel Support

3.5" SBC with VIA MARK 533/ 800 CPU Onboard, SATA,  
Audio, VGA/LCD & Dual LANs



WAFER-MARK I/O Interface

## Feature

1. VIA Mark-533/ 800 and RoHS compliance
2. 144-pin PC100/133 MHz SO-DIMM memory support up to 512MB
3. Dual RTL8100C for 10/100Mbps
4. 2 x SATA, 4 x USB 1.1(2 by pin header), CFII
5. Audio : AC'97 2.3 Realtek ALC655 integrated

## Specification

- ◆ **CPU**  
VIA MARK 533MHz/ MARK 800MHz
- ◆ **System Chipset**  
VIA VT82C686B
- ◆ **BIOS**  
AMI BIOS Label
- ◆ **System Memory**  
1x 144-pin PC100/ 133 MHz SO-DIMM SDRAM socket support up to 512MB
- ◆ **Ethernet**  
Dual RTL8100C for 10/100Mbps ethernet
- ◆ **I/O**  
**I/O Interface**  
4 x USB 1.1  
2 x SATA  
1 x LPT/FDD  
1 x CFII  
1 x RS-232  
1 x RS-232/422/485  
1 x PS/2 KB/MS  
1 x IDE
- ◆ **Digital I/O**  
4 input / 4 output by VIA VT82C686B
- ◆ **IrDA**  
By VIA VT82C686B
- ◆ **Super I/O**  
VT82C686B
- ◆ **Audio**  
AC'97 2.3 Realtek ALC655
- ◆ **Display**  
CRT integrated in VIA MARK  
**LVDS**  
24-bit TTL/ dual 18-bit LVDS integrated in VIA MARK processor
- ◆ **Watchdog Timer**  
Software programable supports 1-255 sec. system reset
- ◆ **Power Supply**  
+5V± 5% only, AT/ATX support
- ◆ **Power Consumption**  
+5V@2.58 A  
(VIA MARK-533 CPU with 1 x 128MB PC100/133 SO-DIMM SDRAM)  
+5V@2.75 A  
(VIA MARK-800 CPU with 1 x 128MB PC100/133 SO-DIMM SDRAM)
- ◆ **Temperature**  
Operation: 0° to 60°C
- ◆ **Humidity**  
Operation: 5% to 95%,
- ◆ **Dimension**  
145 x 102mm
- ◆ **Weight**  
GW: 700g; NW: 260g



## IEI MARK Solution

The Mark processor integrates VIA's high-performance ProSavage4 3D / 2D graphics controller, LCD and Flat Panel display interfaces, with further superior performance between the CPU, DRAM and PCI bus with pipelined, burst, and concurrent operation.

- Chipset life cycle is guaranteed till 2010
- Low Power for Fan-less is up to 800Mhz
- Compatible Drivers and Software
- Complete WindowsR CE and Linux Drivers
- Existing BIOS function support



## What is MARK

**Easy to replace all VIA VT8606 & Eden/C3 series products without any impact**

- Advanced memory controller supporting up to PC133 SDRAM
- Combines with VIA VT82C686B PCI-ISA South Bridge for state-of-the-art power management
- Provides application support for thin client, POS, IPC, STB, PVR and DVR
- 41mm x 57mm BGA package (Ball Grid Array) with 686 balls

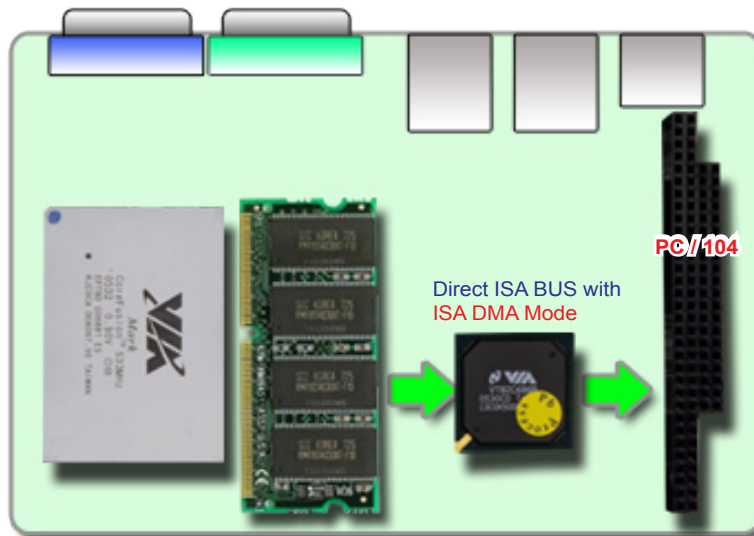


VIA Mark CoreFusion 533 & 800 MHz  
686B SouthBridge

Mark
● 533MHz, 800MHz(New)
● PC133
● Twister-T Driver Ready
● Companion : 686B
● TDP Max: 6W / 8W
● Production: Now

## Direct ISA support without any PCI-ISA bridge in the south bridge

The ISA device uses the mapped logical addresses to access system memory during DMA operations to enhance CPU performance. The VT82C686B South Bridge in WAFER-MARK is a high integration, high performance, power-efficient and high compatibility device that supports PCI bus bridge functionality to make a complete Microsoft PC2001-compliant PCI / ISA system.



## Packing List

1 x WAFER-MARK single board computer	1 x SATA power cable ( P/N: 32100-086600-RS)
1 x Mini jumper pack ( P/N: 33100-000079-RS)	1 x Audio cable ( P/N: 32000-072100-RS)
1 x IDE flat cable 44p/44p ( P/N: 32200-000009-RS)	1 x Second serial port cable ( P/N: 32200-000061-RS)
1 x Keyboard/ PS2 mouse cable ( P/N: 32000-023800-RS)	1 x Utility CD
2 x SATA cable ( P/N: 32000-062800-RS)	1 x QIG (quick installation guide)

## Ordering Information

Part No.	Description
WAFER-MARK-533-R10	3.5" SBC with VIAR MARK533 processor, Audio, CRT, LCD/LVDS, Dual LAN and SATA
WAFER-MARK-800-R10 (by order production )	3.5" SBC with VIAR MARK800 processor, Audio, CRT, LCD/LVDS, Dual LAN and SATA
WAFER-MARK-WINXPE	3.5" SBC with VIA® MARK processor, Audio, CRT, LCD/LVDS, Dual LAN , SATA, IFM 512MB and Windows® XPE image
WAFER-MARK-WINCE050	3.5" SBC with VIA® MARK processor, Audio, CRT, LCD/LVDS, Dual LAN , SATA, IFM 32MB and Windows® CE 5.0 image
32200-015100-RS	LPT cable



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