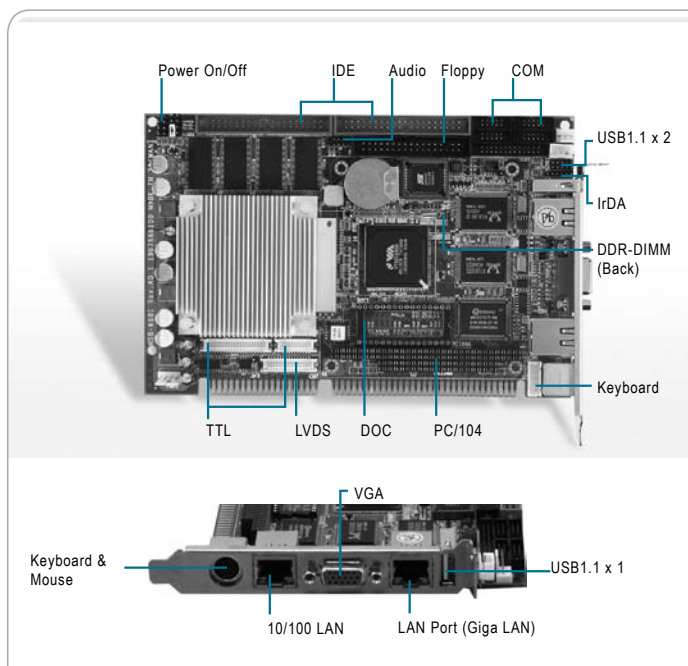


## ■ ISA Half-Size SBC With Onboard VIA Mark 533 MHz Processor



## Specifications

System	
Form Factor	ISA Half-Size SBC
Processor	Onboard VIA Mark 533 MHz CPU
System Memory	144-pin 3.3V SODIMM Socket x 1, up to 512 MB onboard 128 MB memory, supports PC 133 types
Chipset	Mark + VT82C686B
Ethernet	10/100Base-TX x 2 or 10/100Base-TX x 1 + Gigabit Ethernet x 1, RJ-45 x 2, Realtek 8100C (10/100Base-TX) Realtek 8110S (10/100/1000Base-TX)
BIOS	Award Plug & Play ISA BIOS – 2 Mb ROM
Expansion Interface	ISA interface, PC/104
Watchdog Timer	1~255 step can be set with software
RTC	Internal RTC
Battery	Lithium battery
Power Requirement	+5V only, Mini 4-pin power connector
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
Board Size	7.3" (L) x 4.8" (W) (185mm x 122mm)
Gross Weight	0.66 lb (0.3 kg)
MTBF (Hours)	80,000
Power Consumption (Typical)	14W, Onboard VIA Mark 533 MHz
Display	
Supports CRT/LCD simultaneous display	
VGA Controller	Integrated on VIA Mark
Memory	32 MB frame buffer shared system
Resolutions	1600 x 1200 @ 32bpp colors for CRT 1280 x 1024 @ 24bpp colors for LCD
LCD Interface	Up to 36-bit LVDS/ TTL LCD support
I/O	
I/O Chipset: VT686B + Winbond 83977ATF	
Storage	ATA100 (Support four ATAPI devices) x 2 Disk On Chip 2000 support Standard Floppy Disk Drive x 1
Serial Port	COM x 4: (Internal Pin Header x 4) COM 1, 3, 4: RS-232 COM 2: RS-232/422/485 (Pin 9 support +5V by Jumper)
Parallel Port	Supports SPP/ EPP/ ECP modes
Universal Serial Bus	USB1.1 x 3 5 x 2 pin header x 1 Type A x 1
PS/2 Port	Keyboard x 1; Mouse x 1
IrDA	IrDA and CIR header x 1
Audio (Daughter Board)	AC97 Codec, MIC-in/ Line-in/ Line-out/ CD-in

## Features

- Onboard VIA Mark 533 MHz Processor
- VIA Mark + VT82C686B
- One SODIMM SDRAM, Memory Up To 512 MB, Onboard 128 MB SDRAM
- 10/100Base-TX x 2 or 10/100Base-TX x 1 + Gigabit Ethernet x 1 (Optional)
- Integrated ProSavage4 Graphic, 2D/3D VGA Support, 2 Channel 36-bit LVDS LCD Support
- AC97 Codec Audio Daughter Board Optional
- Ultra ATA100 Channel x 2
- USB1.1 x 3, COM x 4, Parallel x 1, IrDA x 1
- DOC2000, PC/104 Interface Socket, ISA High-driver Support
- +5V Only Operation, AT Power



## Packing List

- 1701340704  
Floppy Cable
- 1701400453  
ATA100 Cable
- 1709100201  
USB Cable
- 1700060192  
Keyboard Cable
- 1701010305  
Serial + Parallel Cable
- 1703030501  
ATX Cable
- 1701260307  
2 Serial Cables
- 170110030A  
Serial Cable
- Quick Installation Guide
- Utility CD
- HSB-6681

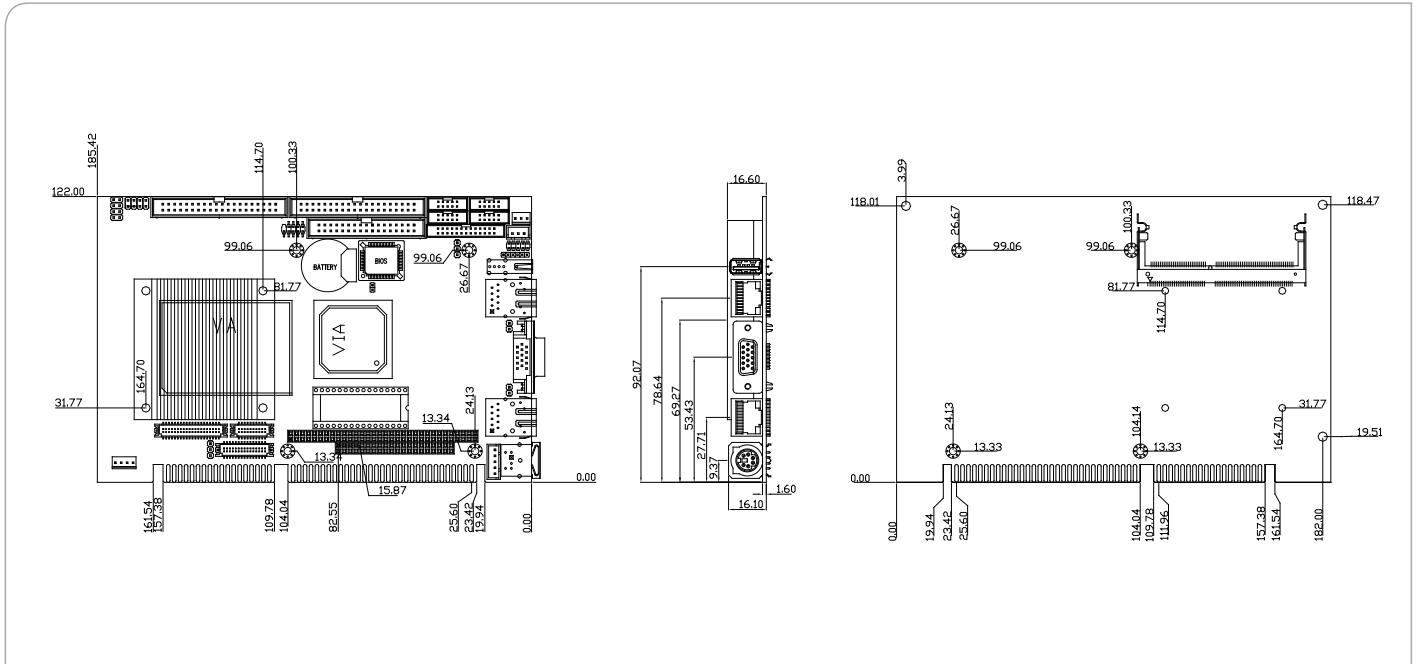
## Ordering Information

- **TF-HSB-6681-A11-VE**  
Half-Size ISA SBC, VIA Mark 533M CPU, 128 MB SDRAM, VGA, 1 10/100Base-TX Ethernet, 3 USB, LVDS, DOC2000, Rev. A1.1
- **TF-HSB-6681-A11-VG**  
Half-Size ISA SBC, VIA Mark 533M CPU, 128 MB SDRAM, VGA, 1 Gigabit Ethernet, 3 USB, DOC2000, Rev. A1.1
- **TF-HSB-6681-A11-E2**  
Half-Size ISA SBC, VIA Mark 533M CPU, 128 MB SDRAM, VGA, 2 10/100Base-TX Ethernet, 3 USB, LVDS, DOC3200, Rev. A1.1
- **TF-HSB-6681-A11-EG**  
Half-Size ISA SBC, VIA Mark 533M CPU, 128 MB SDRAM, VGA, 1 10/100Base-TX Ethernet, 1 Gigabit Ethernet, 3 USB, LVDS, DOC2000, Rev. A1.1
- **TF-HSB-6681-A11-V**  
Half-Size ISA SBC, VIA Mark 533M CPU, 128 MB SDRAM, VGA, 3 USB, LVDS, DOC2000, Rev. A1.1

# HSB-668I

## Dimension

Unit: mm



## Passive Backplane Options

P/N	Description	Master Interface	Slots (PCI/ ISA/ PICMG)	Power ATX Extend Function
TF-BP-204SI	Wallmount, ISA 4-slot Backplane, 4 ISA, Single Segment, AT	ISA	(0/4/0)	AT
TF-BP-206SI	Wallmount, ISA 6-slot Backplane, 6 ISA, Single Segment, AT/ATX	ISA	(0/6/0)	AT/ATX
TF-BP-214SI-V61	Wallmount, ISA 14-slot Backplane, 14 ISA, Single Segment, AT	ISA	(0/14/0)	AT

## Optional Accessories

- TF-PER-U00A  
AC97 Audio Daughter Board