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# STB854-ITS User Guide



## Specification

<b>Product Name</b>	<b>STB-854</b>
<b>Form Factor</b>	6 Layers Embedded Board Size (230mm x 146mm)
<b>Processor</b>	Celeron-M 600Mhz ULV 512K Cache (400Mhz FSB)/PM 1.6G(Support H.264 software Decoder)
<b>Chipset</b>	NB : Intel 854GME SB: Intel ICH4M
<b>System Memory</b>	Support DDR SDRAM 128M or 256M on board
<b>VGA/LCD Controller</b>	UMA 854 AGP Video Controller, TV-out( <b>Conexant25875or25893</b> ) and CRT support (Support Dual Display, Independent display)
<b>Ethernet</b>	Realtek8139/8100B 10/100 Base-T Ethernet LAN Intel 82562ET 10/100 Ethernet LAN
<b>I/O Chips</b>	Winbond W83637HF x 1
<b>BIOS</b>	Phoenix-Award BIOS version 6.0PG, Support 4MB Flash ROM
<b>Audio</b>	AC97 Codec ALC650 Support 5.1 Channels
<b>IDE Interface</b>	ATA-100 x 2 channels
<b>Two Serial Port</b>	2 x COM ports: (Pin Header)
<b>Parallel Port</b>	Parallel Port Supports SPP/ EPP/ ECP mode
<b>K/B and Mouse</b>	Support Standard PS/2 K/B and Mouse
<b>Universal Serial Bus</b>	6 x USB 2.0 Ports (6 ports pin header)
<b>Expansion Interface</b>	Mini PCI Socket & PCI Slot
<b>Watchdog Timer Chipset</b>	Integrated in W83637HF 1~255 Level (sec or min)
<b>Hardware Monitor Chip</b>	Integrated in W83637HF
<b>RTC</b>	Support Real Time Clock
<b>Power Connector</b>	10X2 Pin ATX Power Connector
<b>Operation Temp.</b>	0°C ~ 75°C
<b>Dimension (L x W):</b>	230 x 146 mm



## I/O Connector

<b>VGA</b>	One 15 Pin D-Sub Connector/Pin Header(optional)
<b>Keyboard</b>	2.54mm pitch Pin Header
<b>Mouse</b>	
<b>Serial Port</b>	Two 2.54mm pitch Pin Header
<b>USB2.0</b>	Pin Header
<b>Audio</b>	Pin header.(Stack CNTR for Line-out-R/L)
<b>LAN</b>	One RJ45 with LED(Pin Header optional)/One Pin Header
<b>Power Input</b>	One ATX Power Supply Connector
<b>SCART</b>	Pin Header
<b>YPbPr port</b>	Pin Header
<b>5.1 Audio</b>	Pin Header
<b>Line-in&amp;MIC-in</b>	Pin Header
<b>DVI</b>	Pin Header
<b>SPDIF</b>	One Connector/Pin Header(Optional)

## External Function

Connector	Description
<b>Floppy Disk</b>	One 2X17 Pin Box Header(2.54mm)
<b>Parallel Port</b>	One 2X13 Pin Box Header(2.54mm)
<b>IrDA</b>	5 x 1 Pin Header (2.54mm) x 1
<b>Front Panel</b>	5 x 2 Pin Header (2.54mm) x 1
<b>PWR Connector</b>	2x10 Pin ATX Power Connector
<b>SM Bus</b>	On Front panel Pin Header
<b>Fan Power</b>	1 x Standard 3P Fan Power Connector
<b>TV-out</b>	One RCA & S-video Stack Connector/Pin Header(Optional)

## Expansion Slots

<b>Bus Interface</b>	PCI
<b>Others</b>	Mini PCI

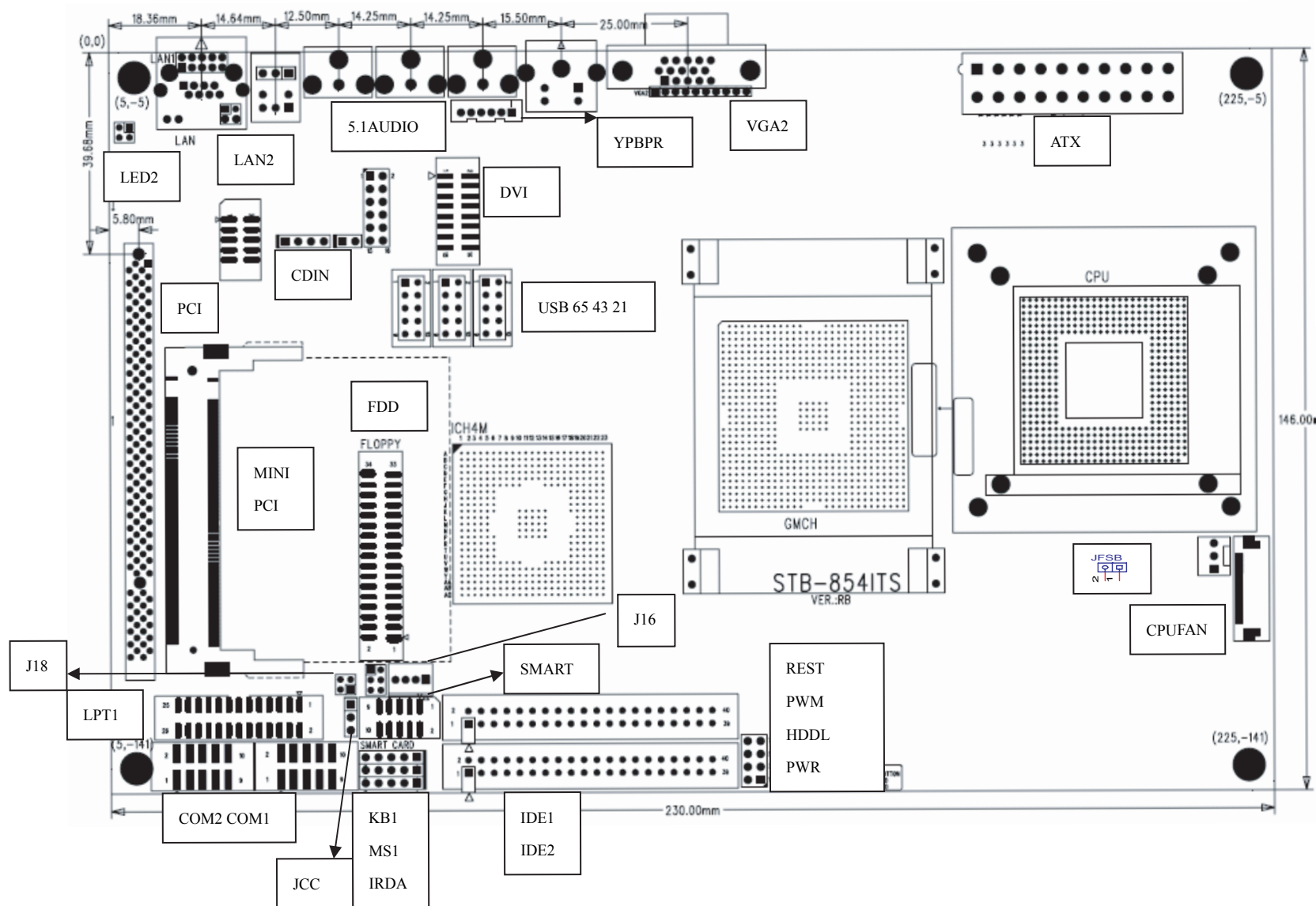


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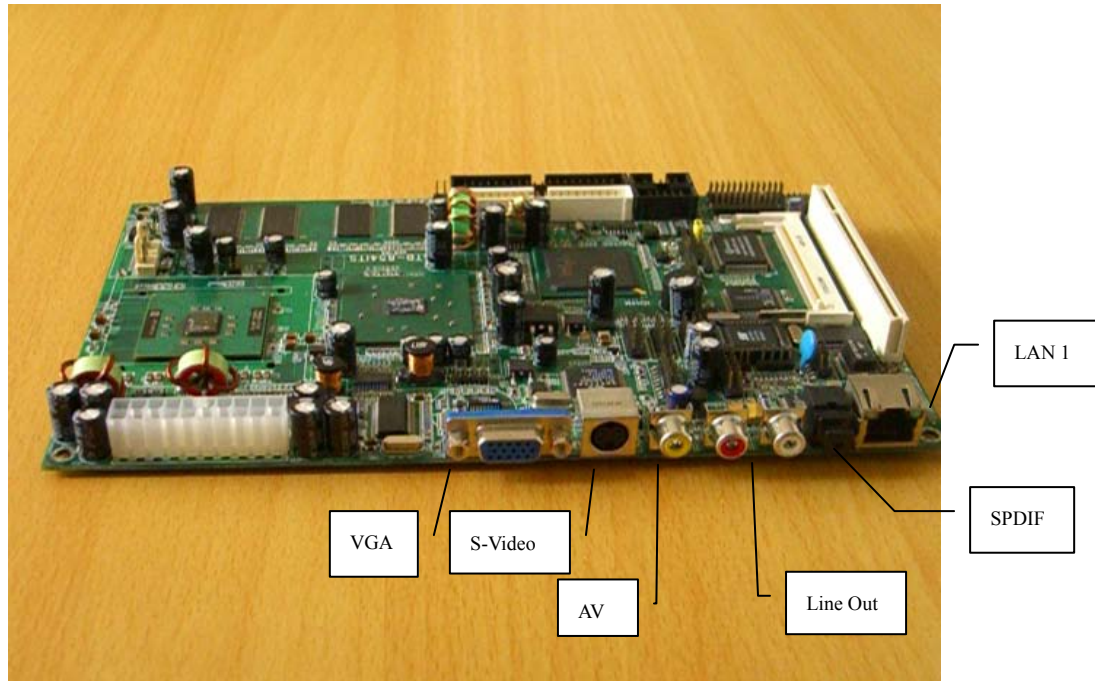
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## Others

<b>Power LED</b>	Onboard pin header
<b>HDD Active</b>	Onboard pin header
<b>Power Button</b>	Onboard pin header
<b>Reset</b>	Onboard pin header



## Jumper/Connector Quick Reference



Label	Function
VGA	CRT SVGA Connector
S-Video	Analog TV-Out Connector
AV	Analog TV-Out Connector
Line Out	Audio Out R/L
SPDIF	Digital Audio Connector
LAN1	10/100M LAN1 Connector Realtek8139/8100BL



## Jumper/Connector Quick Reference

Label	Function
ATX	20Pin ATX Power Connector
JCC	Clear CMOS
JFSB	Open:CM600/Close:Dothan1.2G
LED2	LAN2 LED
LAN2	10/100 LAN Connector Intel82562ET
COM1	RS232 Port 1
COM2	RS232 Port 2
J16	RS422/485 Port
J18	GPIO Port
LPT1	Printer Connector
KB1	Keyboard Connector
MS1	Mouse Connector
IRDA	Infrared (IR) Connector
IDE1	Primary IDE Connector (ATA100)/5V Support
IDE2	Secondary IDE Connector (ATA33)
SMART	Smart Card Reader Connector
RESET	7-8 Reset Button Connector
PWM	5-6 Power Button Connector
HDDL	3-4 HDD LED
PWR	1-2 Power LED



## Jumper/Connector Quick Reference

Label	Function
CPUFAN	CPU FAN Connector
FDD	Floppy Disk Driver Connector (34 pin)
MINI PCI	Mini PCI Connector
PCI	PCI Slot (SCDB-1290 3 Slots PCI Riser Card )
USB1,2	USB Port 1,2
USB3,4	USB Port 3,4
USB5,6	USB Port 5,6
CDIN	Audio In Connector
DVI	DVI Connector
5.1AUDIO	5.1 Audio Connector
YPBPR	YPBPR Connector
VGA2	VGA Connector