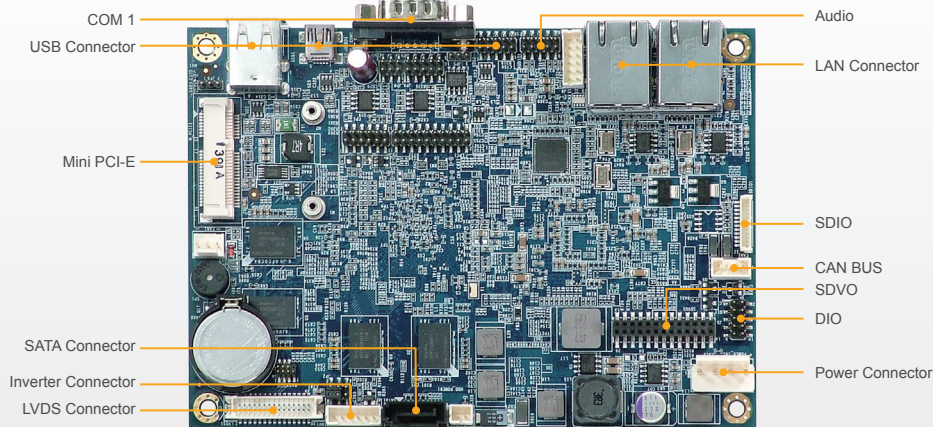


# EB-591LF



3.5" SBC supports Intel® Atom™ E680/640T/640/620 CPU with LVDS/ Audio/ 4 COM/ 2LAN



## Features

- Intel® Atom™ E680/E640T/E640/E620 Processor
- Memory support on board DDR2 SDRAM 800 MHz up to 2GB
- Support Dual Gb Ethernet
- Supports 1 x SATA, 4 x USB 2.0 port and 4 x Serial port
- Support Wide temp sKU

## Specifications

### System

CPU Support	Intel® Atom™ E680/E640T/E640/E620 Processor
CPU Frequency	600MHz~1.6GHz
Chipset	Intel® EG20T
DRAM	DDR2 on board, support 800MHz up to 2GB
BIOS	AMI uEFI, with VGA BIOS
Watchdog	1~255 secs Watchdog timer selectable
Power Supply	Support ATX / AT Power
Power Consumption	+12V : 1A
Dimension	102mm x 145mm (4.02" x 5.71")
Certificate	FCC / CE

### I/O Ports

SATA Interface	1 x S-ATA II connector
SSD	Micro-SD Card
Expansion BUS	1 x mini-PCIe, CAN Bus
Serial Port	4 x COM port, COM 3 for RS-232/422/485(D-SUB) COM 4/5/6 for RS-232, only provide Rx/Tx signal
LAN	LAN 1/2: Intel® 82574L (10/100/1000 Mbps) for Wide Temp: Intel® 82574IT (10/100/1000 Mbps) Support Wake-on-LAN with ATX power
Audio	High Definition Audio; Realtek ALC888S with Mic / Line-In / Line-Out Wide Temp SKU w/o support.
DI/O	4 in / 4 out
USB	4 x USB 2.0 1 x mini USB

### Display

Graphics	Build-in Intel® Atom™; Supports LVDS (18bit & 24bit), SDVO
LCD Interface	24 bit LVDS

### Environment

Operation Temp.	WTG: -40° ~ 85° C ( -40° ~ 185° F); Others: 0° ~ 60° C ( 32° ~ 140° F)
Storage Temp.	-40° ~ 85° C ( -40° ~ 185° F)
Humidity	Operation humidity 20 ~ 90%, storage humidity 20 ~ 95%

\*All information contained in this document is subject to change without prior notice. Please log on [www.protech.com.tw](http://www.protech.com.tw) to acquire latest information.

## Ordering Information

Order No	Description
BE-0591RA-85P	3.5" embedded board w/1.6GHz /1GB /LVDS /Audio /4COM /2LAN (GbE)
BE-0591RA-08P	3.5" embedded board w/1.0GHz /1GB /LVDS /Audio /4COM /2LAN (GbE)
BE-0591RA-68P	3.5" embedded board w/600MHz /512MB /LVDS /Audio /4COM /LAN (GbE)
BE-0591RA-A7P	3.5" embedded board w/1.0GHz /1GB /LVDS /4COM /2LAN (GbE) / WT; w/o Audio

## Packing List

Part No	Description
10-611-00200123	Jumper (2.0mm)
27-008-22206081	SATA HDD & Power Cable
27-012-22202111	Power Cable
	Quick Guide
	Driver CD

## Ordering Accessories

Part No	Description
27-006-00006113	Dual USB cable with bracket
27-028-01209011	Audio Cable
27-024-12203033	COM Port Cable
27-024-12203031	Debug Port Cable
27-024-12203034	RS485 COM Port Cable

Part No	Description
BR-8010RA-00P	SDVO to VGA Daughter Board
BB-H001RA-00S	Heatsink (Standard)
BB-H001RA-01B	Heatsink (Wide Temp)