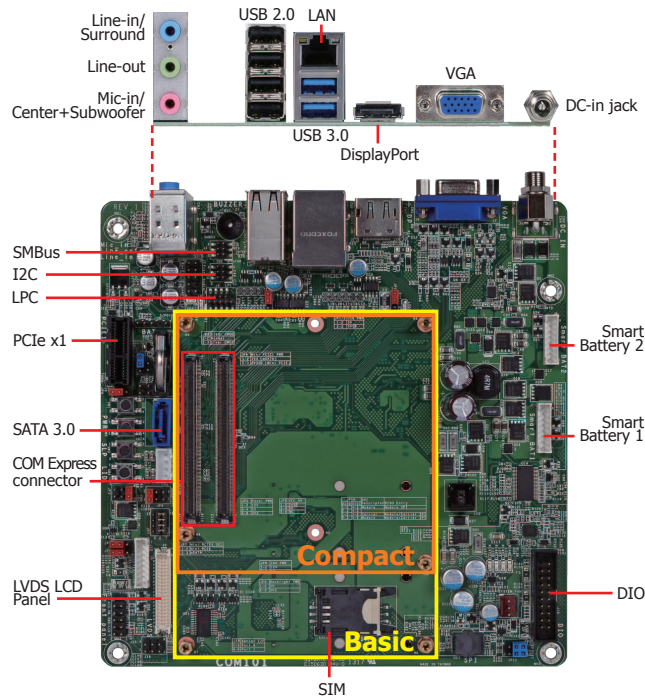




# COM Express® Carrier Board

## COM101-BAT

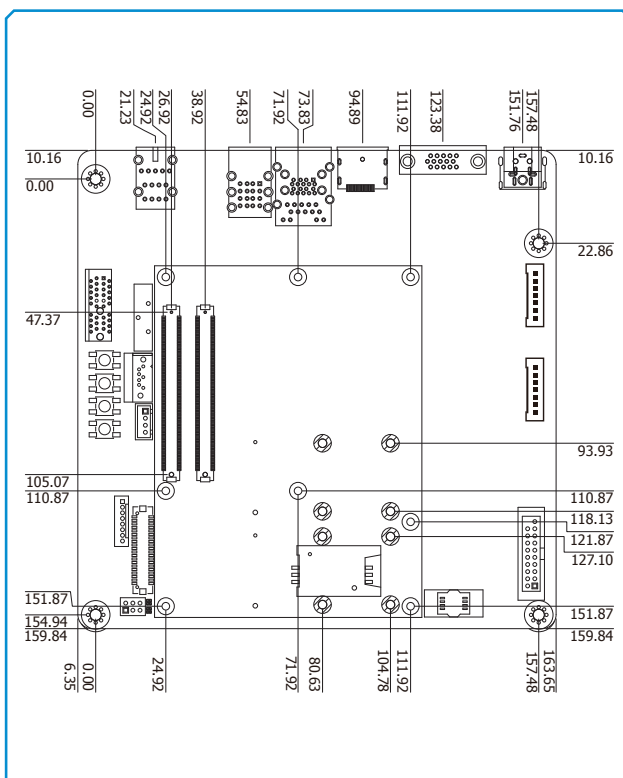


### Features

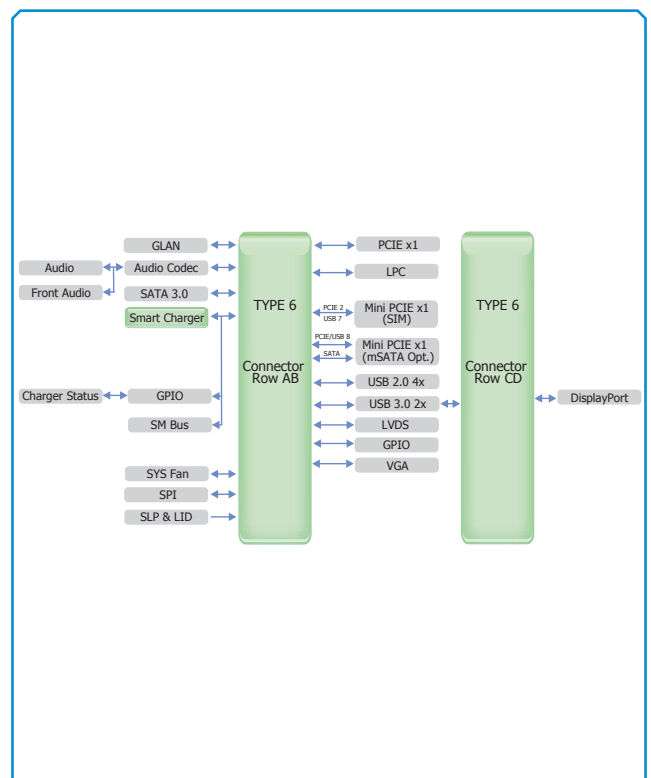
EXPANSION	1 PCIe x1 2 Mini PCIe 1 SIM
DISPLAY OUTPUTS	1 DisplayPort 1 VGA 1 LVDS
LAN	1 LAN
USB	6 USB: 2 USB 3.0, 4 USB 2.0
STORAGE	1 SATA 3.0
DIO	8-bit DIO
DIMENSIONS	170mm x 170mm (6.7" x 6.7")

Supports Compact and Basic modules

### Mechanical Drawing



### Block Diagram



# COM101-BAT

## ► Specifications

### ONBOARD GRAPHICS FEATURES

- Display ports
  - 1 DisplayPort
  - 1 VGA
  - 1 24-bit dual channel LVDS

### ONBOARD AUDIO FEATURES

- Realtek ALC886 7.1-channel High Definition Audio
- Audio outputs: Mic-in/Center+Subwoofer, line-in/surround and line out
- S/PDIF audio interface

### ONBOARD USB FEATURES

- 2 USB 3.0 ports
- 4 USB 2.0 ports

### STORAGE

- 1 SATA 3.0 port with data transfer rate up to 6Gb/s

### DIGITAL I/O

- 8-bit Digital I/O connector
  - 4-bit GPI (General Purpose Input)
  - 4-bit GPO (General Purpose Output)

### REAR PANEL I/O PORTS

- 19V DC-in jack
- 1 DisplayPort
- 1 RJ45 LAN port
- 2 USB 3.0 ports
- 4 USB 2.0 ports
- 1 VGA port
- Line-in/Surround, Line out, Mic-in/Center+Subwoofer jacks

### I/O CONNECTORS

- 2 3-pin connector for general purpose serial interface (Type 6)
- 1 LVDS LCD panel connector
- 1 LCD/inverter power connector
- 1 8-bit Digital I/O connector
- 1 front audio connector for line-out and mic-in jacks
- 1 S/PDIF connector
- 1 SATA 3.0 port
- 1 SATA power connector
- 2 Smart battery charger connectors
- 1 LPC connector
- 1 I<sup>2</sup>C connector
- 1 SMBus connector
- 1 front panel connector
- 1 fan connector

### EXPANSION SLOTS

- 1 PCIe x1 slot (PCIe 2.0)
- 2 Mini PCIe slots (PCIe 2.0)
  - 1 slot supports PCIe and USB signals for 3G module
  - 1 slot supports PCIe, USB or mSATA signal
  - Supports half/full size Mini PCIe card
- 1 SIM card socket

### ROM INTERFACE

- 1 SPI interface
  - Supports up to 64Mbit

### TEMPERATURE

- Operating: 0°C to 60°C
- Storage: -20°C to 85°C

### HUMIDITY

- 10% to 90%

### POWER OUTPUT

- 12V, 5VSB, VCC\_RTC (ATX mode)
- 12V, 5V, VCC\_RTC (AT mode)
- 12V, VCC\_RTC (AT mode)

### PCB

- Dimensions
  - Mini-ITX form factor
  - 170mm (6.7") x 170mm (6.7")
- Compliance
  - PICMG COM Express® R2.1, Type 6

## ► Packing List

- |                          |
|--------------------------|
| • 1 COM101-BAT board     |
| • 1 SATA data cable      |
| • 1 SATA power cable     |
| • 1 I/O shield           |
| • 1 QR (Quick Reference) |
| • 1 DVD                  |

## ► Optional Items

- |  |
|--|
| • SATA data cable                            |
| • Serial ATA power cable                     |
| • I/O shield                                 |
| • Power adapter (60W, 12V) : 671-106002-102G |