**Features**

- **EXPANSION**
  - 1 PCIe x1
  - 3 Mini PCIe
  - 1 SIM

- **DISPLAY OUTPUTS**
  - 1 DisplayPort
  - 1 LVDS

- **LAN**
  - 1 LAN

- **COM**
  - 2 COM

- **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")

**Mechanical Drawing**

**Block Diagram**
Specifications

ONBOARD GRAPHICS FEATURES
- Display ports
  - 1 DisplayPort
  - 1 24-bit single 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
- 5V~19V DC-in jack
- 2 DB-9 RS232 serial ports
- 1 DisplayPort
- 1 RJ45 LAN port
- 2 USB 3.0 ports
- 4 USB 2.0 ports
- Line-in/Surround, Line out, Mic-in/Center+Subwoofer jacks

I/O CONNECTORS
- 1 serial interface for 2 serial ports (TX/RX)
- 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
- 1 Smart battery charger connector
- 1 LPC connector
- 1 I²C connector
- 1 SMBus connector
- 1 front panel connector
- 2 fan connectors

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

SUPPORTED COM EXPRESS MODULE
- Mini form factor

DAMAGE FREE INTELLIGENCE
- Legacy Super I/O support (option)
  - Monitors 5V/1.5V/12V/3.3V
  - Monitors SIO_Fan

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 10

Packing List
- 1 COM100-B 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 (120W, 19V) : 671-112004-100G