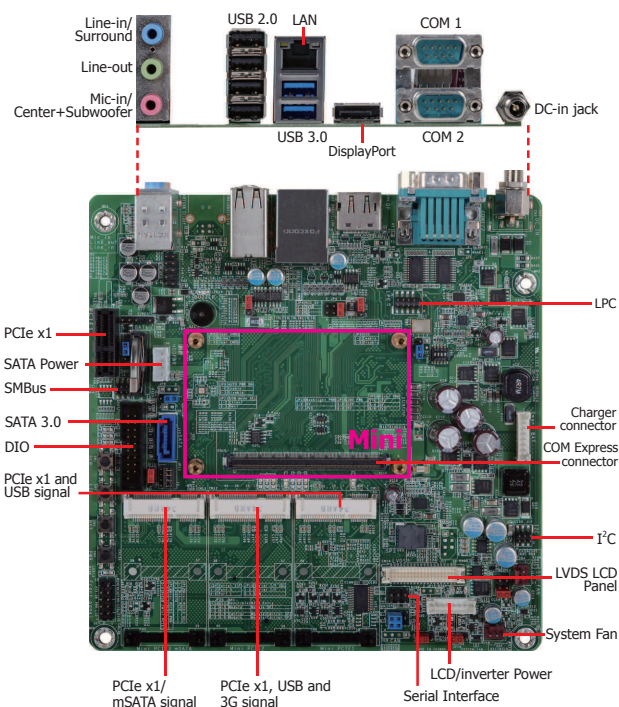


DFI[®] COM100-B COM Express[®] Carrier Board



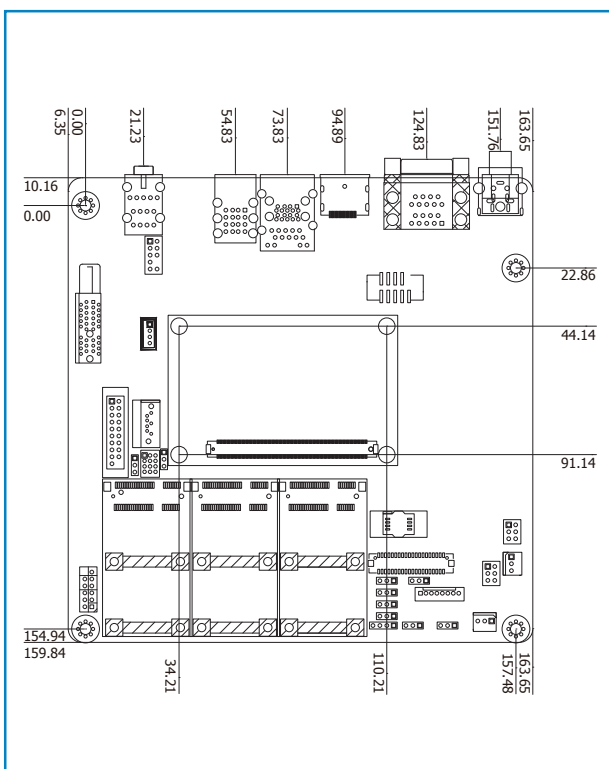
Features

EXPANSION	1 PCIe x1 3 Mini PCIe 1 SIM
DISPLAY OUTPUTS	1 DisplayPort 1 LVDS
LAN	1 Gigabit LAN port
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")

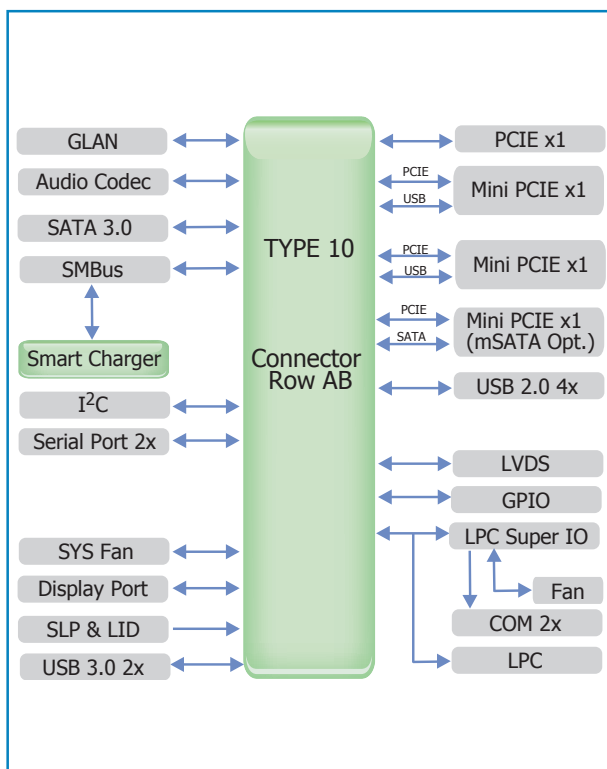


Supports Mini module

Mechanical Drawing



Block Diagram



COM100-B COM Express® Carrier Board



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 DVD |
| • 1 QR (Quick Reference) |

Optional Items

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

DFI reserves the right to change the specifications at any time prior to the product's release. Changes thereafter will be based on the product's revision. Please contact your sales representative for the exact revision offered in your area. Refer to the website (www.dfi.com) for the most updated information. All product names mentioned are trademarks of their respective companies. COM Express® is a registered trademark of the PCI Industrial Computer Manufacturers Group © September 2, 2013 DFI Inc.