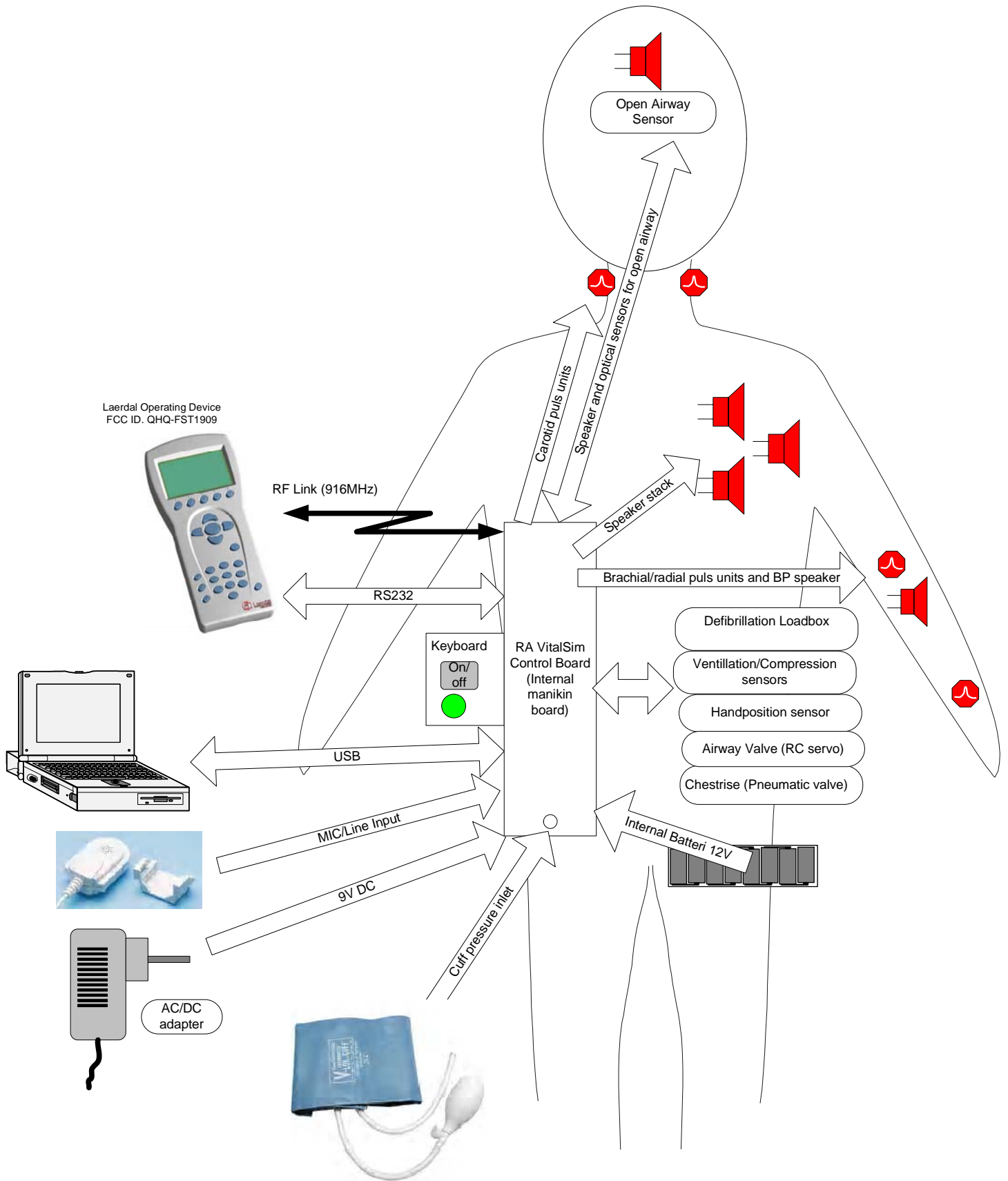
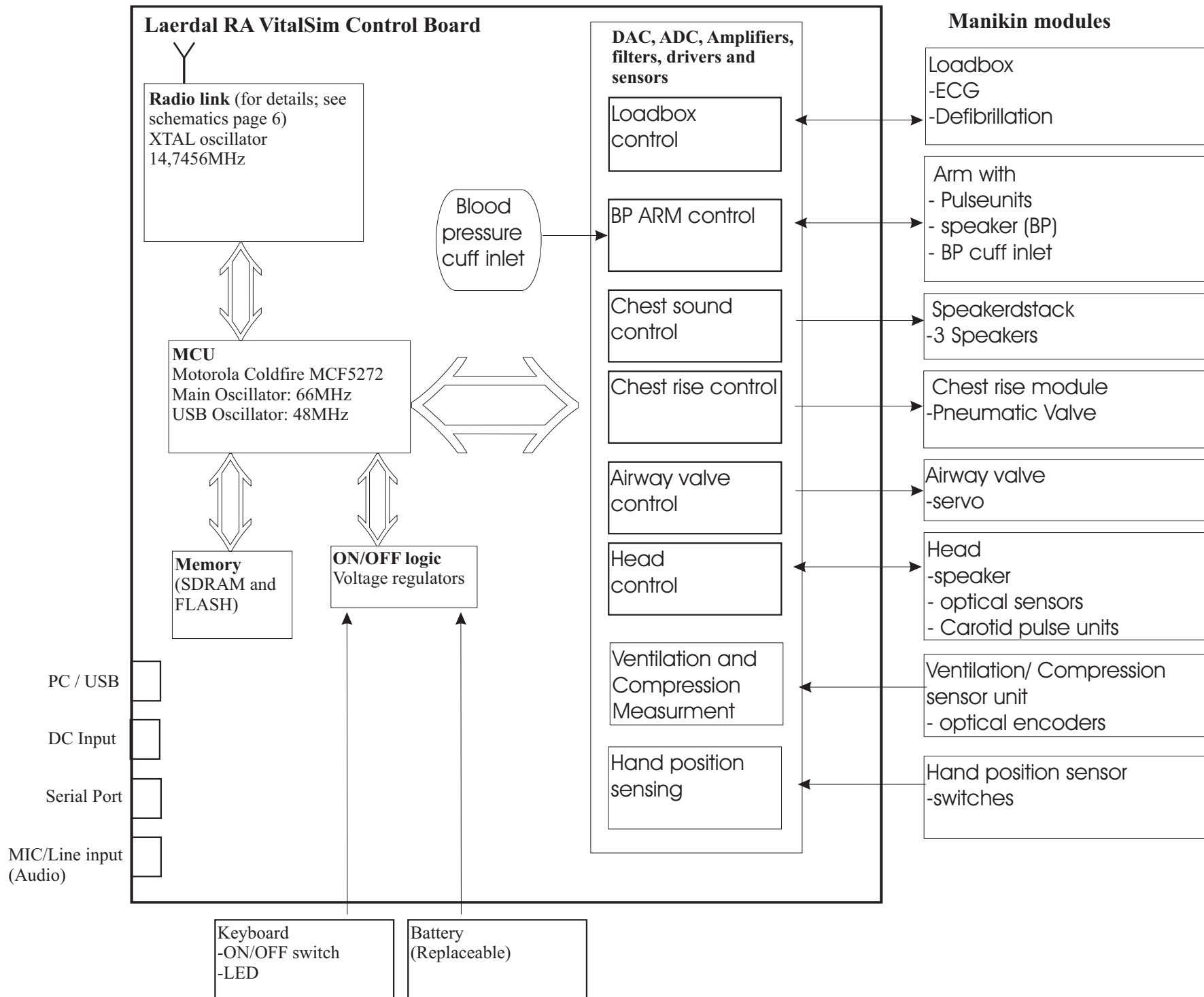


Resusci Anne Simulator System Overview



Laerdal Resusci Anne Simulator



Laerdal Resusci Anne Simulator

Operational description

Laerdal Resusci Anne Simulator is a patient simulator (training manikin) intended for training of health personnel. **RA VitalSim Control Board** controls all the manikin modules:

- **Loadbox**
 - ECG signal to chestskin connectors
 - Load resistor for defibrillation energy absorption.
- **Arm**
 - Speaker for blood pressure sound
 - Radial and Brachial pulse units
- **Speaker stack**
 - Speaker for heart sound
 - Speakers for right and left lung sounds
- **Chest rise module**
 - Pneumatic valve
- **Airway valve**
 - Servo
- **Head**
 - Speaker for vocal sound
 - Sensors for open airway
 - Two Carotid pulse units
- **Ventilation/ Compression sensor unit**
 - Optical encoder for ventilation measurement
 - Optical encoder for compression measurement
- **Hand position sensor unit**
 - switch based sensors.

Power Source

- 8 Alkaline batteries (D-cells) or DC Input
- Input voltage range:6V-14V

RF

- The RF circuit is based on IC; Chipcon CC1000
- RF Frequency: 915,606-916,484MHz (5 channels)
- IF frequency: 150 kHz (typ)
- IF bandwidth: 175kHz (typ)
- XTAL oscillator 14,7456MHz (20ppm)
- Modulation: FSK
- Antenna: Internal monopole (PCB track)

PCB

- PCB contains 6 layers included ground plane and power plane.

User Interface and connections

- ON/OFF switch and LED indicator on manikin
- Laerdal Operating Device (FCC Id. QHQ-FST1909) is the user remote control for the manikin
- A PC connected to USB port controls manikin and presents data from the manikin
- Serial Port. Connection to Laerdal Operating Device. Alternative to RF interface. When this is connected, the RF communication is disabled.
- MIC/Line Input. For audio equipment (e.g. MIC or line output device)
- BP Cuff. Cuff pressure inlet (not an electrical connection)