

Module 2 System Hardware and Theory

The goal of the System Hardware and Theory Module is to provide you with a solid grounding on the purpose of the GE Logiq E9/Vivid E9 system's different components and how they function together within the system.

The Logiq E9 is a general system with the capability of performing cardiovascular, abdominal, urologic, pediatric and women's health exams, and has been produced since 2009. The focus of the Vivid E9 is cardiovascular exams. We will use a color coded system to call out the differences where necessary. Text that appears in orange applies only to the Logiq E9 and green text applies only to the Vivid E9.

The GE Logiq E9 and the Vivid E9 systems are quite similar but there are some differences. There are also some differences between versions of the same system. For example, in later versions of the Logiq systems the functionality of the Digital Receiver Boards (DRXs), Analog Receiver Boards (GRXs) and the Global Front End Interface (GFI) are replaced with the single MRX board.

The three major functional blocks in all ultrasound systems are:

- Front End – Includes transducer analog signal processing functions.
- Back End – Includes user interface and system communication with DICOM systems.
- Power Systems – Generates, regulates and supplies the required voltages to the various parts of the system.

In the GE E9 systems the GTX board(s) in the Front End Processor, generate the signals transmitted by the probes as ultrasound into the body. The Transmit bursts are routed from the GTX board via the XD bus to the Relay board where the ultrasound probes are connected, the input signals travel from the probe connector panel to the front end Front End Processor (FEP), then to the Back End Processor (BEP), and finally, the results are displayed on the monitor. System configurations are stored on a hard drive which resides inside the BEP, and all necessary software is loaded from the hard drive on power up.

Vivid 9 User Manual

Camilla Rothe



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