

Expository Statement

The Transmitter is used to transmit multiple ECG channels plus other optional parameter information in a digital format back to a host computer. The Host computer displays the received information for clinical review. The transmitter consists of three channel ECG analog amplifiers, pacer detect circuit, multiple A/D and D/A converters, a microprocessor, and an RF transmitter. The microprocessor periodically samples the A/D converter and sends the digital samples, status, configuration, and other information to the transmitter module. This is performed using a 10.4k baud serial link, which modulates the programmable RF radio frequency of the transmitter module. The Radiofrequency range of the transmitter module is set to operate within the 174 Mhz to 216 Mhz VHF biomedical frequency band per FCC Part 15 Section 15-242.