

## Base Operational Description

The C-3 Base is a small table top device that is used to communicate with the C-3 Monitor using the 900 MHz radios in both these devices. The C-3 Base also acts as a charger. An AC to DC converter is plugged into the wall to provide 15V, 1.0A power to the Base. This power is passed on to the Monitor to charge its batteries when plugged into the Base.

The Base communicates with the Monitoring Center through the Plain Old Telephone System (POTS). The Base has a FCC Part 68 approved standard 57.6 Kbaud Modem and this provides standard telephone line communications. The Base is designed around a low power 16 bit TI MSP-430 processor, power supply, a 900 MHz radio module and a small Multitech modem module.

The Base has a helical spring antenna to communicate with the Monitor. The antenna ground plane is isolated from mains ground by an AC adapter.