

Data Extending Unit (DEU ver. 2.2) General Description

The Data Extending Unit is a wall-mounted microprocessor based device, which is housed in a small plastic case. The DEU extends the reception range of a home arrest electronic monitoring receiver by receiving and re-transmitting data.

The DEU is composed of one PCB which includes a receiver circuit, a transmitter circuit, a CPU and a backup battery.

The DEU receives and transmits on 318.000 Mhz. It utilizes two monopole antennas, one for the receiver and one for the transmitter.

The external interface of the unit includes:

- An on/off key.
- 1 DC jack for an external 7.5 VDC power supply.
- Four LEDs for user indications.

Oscillators in the DEU:

Y1 – 307.3 Mhz	Quartz Crystal
Y101 – 16 Mhz	Quartz Crystal
Y201 - 318.0 Mhz	SAW Filter