10. C4230 Basic Operation (Base and Handset)

10.1 Registration

Before the handset can make a call, it has to register to a base unit. This can be done either manually or automatically.

For C4230, the following identification codes are generated during power up.

A. Handset IPEI (International Portable Equipment Identity) code:

Bits (0 -> 5) - 000000;

Bits (6 -> 15) - EMC (Equipment Manufacturer's Code) code
(DSPG 0x010);

Bits (16 -> 35) - PESN (Portable Equipment Serial Number)
(524K combinations)

B. Base RFPI (Radio Fixed Part Identity) code:

Bits (0 -> 7) - Frequency information;

Bits (8 -> 9) - 00;

Bits (10 -> 19) - EMC code (DSPG 0x010);

Bits (20 -> 36) – FPN (Fixed Part Number)
(65K combinations);

Bits (37 -> 39) - 000.

These codes are registered to each other during registration process. In addition, a 128 bit authentication code (made up of four 32 bits short authentication code) is generated randomly through the registration process. These codes are checked when the handset/base communicate with each other.

Registration (Manual Method):

Press the handset "MENU" button or the "MENU" softkey.

Press "UP" / "DOWN" button to scroll to "Initial Setup".

Press "SELECT" softkey. LCD will show the selection arrow pointing at "REGISTRATION".

Press and hold the base "PAGE" switch for ~2 seconds until the "INUSE" LED on the base blinks.

Press the "SELECT" softkey on the handset.

The base and handset will start the registration process.

Registration (Automatic Method):

Connect AC power to the base unit first.