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DESCRIPTION OF ACTIVE DEVICES

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COMPONENT  
DESIGNATION

FUNCTION OF DEVICE

TRANSMITTER

|       |                             |
|-------|-----------------------------|
| Z111  | 1900 MHz Circulator         |
| N113  | GAAS FET RF Switch          |
| Z101  | 800 MHz Duplexer Filter     |
| N500  | GAAS FET RF Switch          |
| Z500  | 800 MHz Transmit SAW Filter |
| Z501  | SAW Filter                  |
| N501  | Amplifier and Mixer IC      |
| Z502  | 1900 MHz Saw Filter         |
| V1309 | Switching Transistor        |
| V601  | Switching Transistor        |
| N601  | Dual Band Power Amplifier   |
| V111  | Detector Diode              |
| V113  | Detector Diode              |
| Z110  | Isolator, 800 MHz           |
| Z100  | Diplexer                    |

RECEIVER

|       |                          |
|-------|--------------------------|
| Z802  | 1900 MHz Ceramic Filter  |
| N200  | Dual band LNA/Mixer ASIC |
| Z200  | 1900 SAW Filter          |
| V1313 | Switching Transistor     |
| Z201  | 800 MHz SAW Filter       |
| Z803  | Crystal Filter           |
| V300  | Tuning Diode             |
| N300  | Receiver IF IC           |
| Z300  | Filter, 600 kHz          |
| Z301  | Filter, 600 kHz          |

DESCRIPTION OF ACTIVE DEVICES

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COMPONENT  
DESIGNATION

FUNCTION OF DEVICE

SYNTHESIZER

|            |                            |
|------------|----------------------------|
| N401       | Synthesizer/ Modulator IC  |
| N400       | VCO Module                 |
| V400, V401 | FET Amplifier              |
| V402       | Tuning Diode               |
| N1302      | 19.44MHz Oscillator Module |

COMPONENT  
DESIGNATION

FUNCTION OF DEVICE

BASEBAND

|                      |                                       |
|----------------------|---------------------------------------|
| N700,N701,N702,N1303 | Voltage Regulators                    |
| V1314, V1315         | Transmit Protection transistors       |
| V702, V701           | Transmit Bias switching transistors   |
| D1002                | Clock Multiplexer                     |
| V802, V1310          | Mixer Bias switching transistors      |
| V801, V803           | RF bias switching transistors         |
| Z800, Z801           | Filters                               |
| D1001                | Microprocessor                        |
| D904                 | Digital Signal Processor              |
| D1000                | Audio Processor                       |
| V1000                | Switching transistors                 |
| H1314                | Liquid Crystal Display                |
| V1306                | Hall Effect Bias switching transistor |
| V1308                | Diode OR Gate                         |
| N1300                | Hall Effect Device                    |
| V1319                | Light Emitting Diodes (LED)           |
| V1307                | Vibrator bias switching transistor    |
| V1301                | LED bias switching transistor         |
| H1300-1313           | LEDs                                  |
| V1200, V1201         | Diode Clippers                        |
| N1100                | Battery Charging ASIC                 |
| V1100                | Charging FET                          |
| V1316, V1318         | Charging switching transistors        |
| D901, D903, D905     | Memories                              |
| U5, V1320            | Switchable OR Gate                    |
| U6                   | 32.768kHz Crystal Oscillator          |