TE-310 BLOCK DIAGRAM OF DIGITAL BOARD

```
                    ┌──────────────┐
                    │External FLASH,│
                    │    SRAM      │
                    │   memory     │
                    └──────┬───────┘
                           │
                           ▼
┌──────────┐      ┌────────────────┐        ┌──────────┐
│          │      │   M16C/60      │───────▶│  Buzzer  │
│ Power &  │──────│ 16-bit signal-chip│     └──────────┘
│ Reset IC │      │  MicroComputer │        ┌──────────┐
│          │      │                │───────▶│RF control│
└──────────┘      └──┬──────────┬──┘        │   port   │
                     │          │           └──────────┘
                     ▼          ▼
              ┌────────────┐ ┌──────────────┐
              │19 key matrix &│ │RS-232 interface│
              │19 LED matrix│ │              │
              └────────────┘ └──────────────┘
```
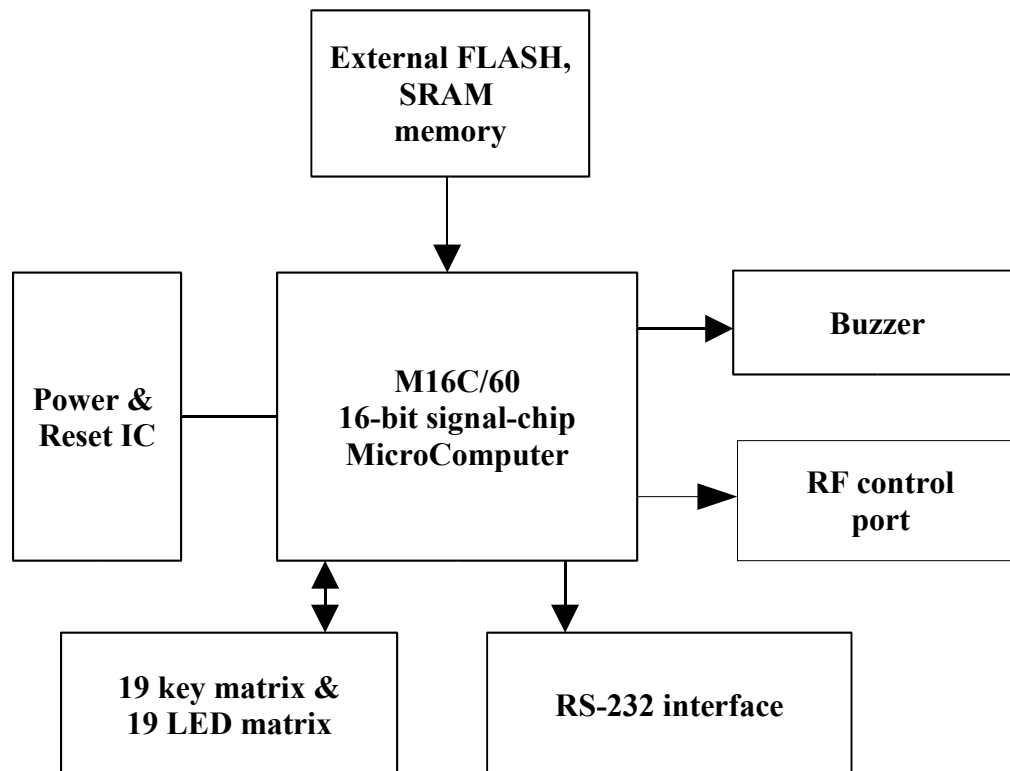
1. MCU: Mitsubishi 16-bit single-chip microcomputer M16C/ 60 family M30620 is packaged in a 100-pin plastic molded QFP and featured the serial I/O, DMAC, with 1M bytes of address space. The main clock is 4.9152MHz and the sub-clock is 32.768KHz. There have RF control port for generating the control signals and POCSAG encoded data to RF circuit.

2. External memory: There include FLASH and SRAM, the former is for storing main firmware program and pager