

EXHIBIT C

[FCC Ref. 2.1033(b)(4)]

"Description of Circuit Functions"

Circuit Description for AT7420

Handset RF:

1. RF module performs all the RF transmits and receives by using a COMBO IC. The audio base band processing also includes in this chip.

Handset main:

2. The MPU - controls the interface to the RF module and all the functional blocks include, keyboard scanning, LCD driving circuit, ringer buzzer generation.
3. The RESET – a reset circuit to initialize the MPU once system power up.
4. CHG DET – is the block to detect the handset is being put on the charging cradle firmly.
5. REGULATOR – a dc regulator to provide a regulate dc supply to the system.
6. Keyboard – scanned by the MPU, to detect the input.
7. EEPROM- for registration ID keep.

Base RF:

8. RF module performs all the RF transmits and receives by using a COMBO IC. The audio base band processing also includes in this chip.

Base Main:

9. MCU – to controls the interface between module and line interface.
10. RF REF_CLK, a 4MHz oscillation circuit to provide the clock fro RF COMBO chips.
11. RX mute – mute the signal send to line when performing the system data communication.
12. Line Balance – Telephone line interface block which interface the audio signal from and to the line.
13. Hook status – Control the connection of the Line Balance to the telephone line.
14. RINGE Detect – Converts the incoming ringer signal to the MCU for detecting the incoming ring.
15. REG – Regulate and supply a dc voltage to the system.
16. RESET – generates a reset signal to initialize the MCU when power up.
17. IN USE/ PAGE LED – indicate the system is in page or in use status.
18. ADAPTOR – converts the main line power 120V to a 9Vdc for supplying the complete system operations.
19. EEPROM- for registration ID keep.

Radio/Charger:

20. RADIO PCB BOARD- performs all the radio performance includes AM/FM.
21. MCU- to controls the radio module and LCD display.
22. RESET- generates a reset signal to initialize the MCU when power up.
23. "SW1-A"- for volume control and power switch.
24. IC1(MC34119)- for radio audio amplifier.

- 25. REG – Regulate and supply a dc voltage to the system.
- 26. Q6,Q7,Q9- use for charge control.
- 27. MUTE – use for Speaker enable.
- 28. ADAPTOR – converts the main line power 120V to a 9Vdc for supplying the complete system operations.