一、 **Basic Functions**

MID 778 is a low cost broadband access terminal for today's word of communications convergence and digital multimedia entertainment. It provides multimedia entertainment, High-speed broadband internet access, and work on the go!

It is equipped with various functions, such as electronic-book, MP3 play, Game player, enlarged PDA, and common business software such as web browsing, word processing, spreadsheets and more. Perfect for the light business traveler, student, and every kid wanting to enjoy the experience of exploring the world of broadband multi-media

二、 **Product features**

- Processor: TCC 8803
- Display: 7-Inch high resolution TFT-LCD digital screen, True color image display
- Input: Touch Screen and Soft Keyboard
- Sound card: ALC 5621
- Communication: Build in Wireless LAN adapter（802.11b/g）
- System: Embedded operating system

三、 **Circuit Description**

1) **power supply**

DC 5V Power supply or battery, Power is converted to 5V Voltage through the U2(DC-DC),then through other DC-DC\LDO,After Power supply IC proceed voltage converted ,the power supply to the machine; At the same time DC 5V power supply can provide battery charging

2）**Minimal System**

U2（TCC8803）is CPU，Control the work of the various parts of machine, with three external crystal, includes 32.768kHz, 12MHz and a 27MHz as base clock.

U3、U4 is DDR2 SDRAM， mainly responsible for the data cache

U5 is NAND FLASH，Primarily responsible for program files and data storage

3）**Audio**

ALC 5621 is Audio codec,Audio signal Decoding through ALC 5621and Zoom handling,through SPEAKER or EARPHONE output; Supports MIC recording

4）**USB**

U28（RT9711AGB）is a kind of Multifunction-chip:it expand one USB port to 4 USB ports,can connected with USB KEYBOARD, U disk,mouse,keyboard etc USB device, Through the network transformer T1 and RJ-45 Interface connect with Cable

5）**DISPLAY**

J3 is Display interface cable，can be connected to LCD Screen

6）**TF CARD**

CON4 is TF card base， can store data via TF card

Antenna: PCB antenna with gain 2.0dBi.

Modulation type: 11b: DSSS (CCK, QPSK, BPSK),11/5.5/3/2/1 Mbps (Dynamic), 11g: OFDM (64QAM, 16QAM, QPSK, BPSK)54/48/36/24/18/12/9/6 Mbps (Dynamic), Frequency Range: 2.412-2.462GHz

Input Voltage: 5V powered by power adaptor or 3.7V powered by Lion Battery