Mini-ITX System for Community Information Kiosk in Urban Area
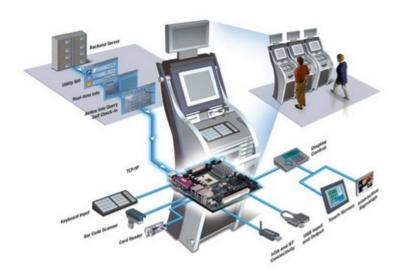
Location: Mainland China

Introduction:

Information kiosks are publicly accessible self-service platforms that offer customers a variety of on-line services. The distinguishing feature of kiosks is a touch screen design that creates a convenient and user-friendly experience for people of all ages and levels of education. Users can easily navigate on-screen menus by the touch of a finger, and perform a variety of activities such as printing high-quality digital photos, checking real-time product and service information, making on-line orders, dealing with bills and ticket payment. The booming kiosk market satisfies higher living standards that require real-time and individualized services.

Solutions:

Shanghai municipal government has incorporated community information kiosks into key practical projects in the city. These projects, together with other community resources such as the" payment and charging service", provide residents with convenient and efficient payment, information and business services. Integrated business and payment services are fundamental functions of this information kiosk. The machine uses two displays: one for advertising and the other one for payment queries. Additionally, there are other peripherals such as a bar code reader, infrared interface and I/O interface. The core of the machine is an Advantech Mini-ITX AIMB-240 motherboard, which is employed for display, control and communication.

The AIMB-240 has a Mini-ITX form factor with a footprint of only 6.69" x 6.69". Equipped with the Intel 82852GME chipset, the AIMB-240 supports Intel® Pentium® 4 and Celeron® processors at up to 2.8 GHz, a 400/533 MHz FSB and up to 1 GB of DDR 266/333 SDRAM. The AIMB-240 provides dual displays with a variety of display types, such as LVDS, DVI, TV-out and CRT. Additional multimedia features include 5.1 multi-channel audio and DVI transmission at up to 135 mega pixels per second. Six COM ports and six high-speed USB 2.0 ports offer superb connectivity for drives, keyboards, mice and other peripherals. This motherboard also supports dual 10/100Base-Tx Ethernet for high speed networking.

Benefits:

1. The compact Advantech AIMB-240 Mini-ITX motherboard is designed tosupport small devices. Various interfaces, such as multiple network interfaces, multiple USB sockets, multiple serial ports and S-Video are integrated in the compact 17 × 17 cm size. The board is particularly applicable to the inside of equipment such as media player platforms and financial facilities.

2. Provides dual displays with a variety of display types, such as VGA, DVI, 2 channel LVDS and TV OUT

3. Many and various I/O connectors: dual LAN, CF, PCI, Mini PCI, 6 COM, 6 USB 2.0 & GPIO

4. Complies with RoHS lead-free manufacturing process to significantly reduce environmental pollution