

Industrial Computers for Automatic Ticketing System

Introduction:

As urban population continues to grow, many countries in the world aspire to develop rapid rail transportation. Featuring security, comfort, convenience and speed, subway or light rail systems have become the best solution to urban transportation problems. Subways or light rail systems can upgrade the transportation structure, provide three-dimensional transportation networks, eliminate traffic jams and improve the urban environment. Guangzhou Subway wanted to use technology to reduce the workload of subway workers and focus on investment returns by enabling them to acquire urban passenger and subway performance information.

Solution:

The system adopts full-closure operation, and distance & time payment mode. Non-contact IC cards act as tickets. A highly reliable and secure ticketing computer network manages subway operation tasks such as ticket sales, verification, accounting and statistics. The ticketing machines in this project use Advantech's Pentium III processor-based platform, IPC-6806 chassis with PCA-6180E processor board, for its excellent stability and reliability.

Advantages: IPC-6806

- Supports 6 ISA or ISA/PCI slot full-sized cards
- Uses 150 W or 200 W of power
- Room for one 3.5" floppy drive and one 3.5" hard disk; IPC-6806 has space for one 5.25" CD-ROM drive
- One 49 CFM fan cooler with air filter

PCA-6180E

- Supports Pentium III / Celeron processor up to 1.4 GHz
- Intel 815 chipset supports 133 MHz front side bus
- 3DIMM sockets supporting up to 512 MB of memory
- Integrated PCI Ultra 160 SCSI controller
- Integrated dual 10/100Base-T network controllers (Intel 82559 & 82562)
- ISA high drive (driving current up to 64 mA)
- CMOS and BIOS automatic backup

