



Application Story

NEXCOM Fanless Computer Plays Key Role in Police Speed Trap

A traditional security surveillance application relies on human resources for task execution, such as speed-testing and monitoring; however this often results in inefficiency, inaccuracy and increased labor costs. By integrating NEXCOM's fanless computer into their computerized police system, an e-police force in Tianjin, China was able to significantly reduce human resource deployment and simultaneously enhance the systems efficiency and performance.

Application Requirements

A global supplier of advanced video surveillance solutions, which was ranked in the industry's Top 10 by the National Security Brand in China between 2003 and 2010, is committed to delivering reliable and precise solutions for e-policing thus creating a safer environment.

In order to achieve this goal, the company required a solution with exceptional reliability, superb cooling properties and a low maintenance design. In addition, the company wanted a platform which was suitable for 24/7 outdoor operation and be powerful enough to support image processing and number plate recognition under fanless industrial computer solution. After much market research the vendor chose NEXCOM's hardware as the basis for their professional e-police solution.

Successful Solutions

NEXCOM's fanless computer, the NISE 3140M, totally meets the customer's expectations. Housed in a compact robust chassis with fanless design, NISE 3140M is a dust-free, totally reliable platform that greatly lowers maintenance costs. Moreover, a wide operating temperature, from -5~55°C, and compact dimensions means the NISE 3140M is perfect for meeting the challenges associated with outdoor applications.

The powerful NISE 3140M is equipped with GM45 chipset and Intel® Core™ 2 Duo processor, making it the ideal solution for processing the rich media images usually associated with number plate recognition. This superb performance enables the Police to efficiently remove noise, de-interlace, sharpen and adjust the color on video footage from even HD cameras.



▲ NISE 3140M

Intel® Core™ 2 Duo Fanless System with IEEE 1394b and 1 x PCI Expansion Slots

The customer is also happy with the multitude of peripheral interfaces that offer great expansion opportunities. NISE 3140M comes with major interfaces, such as a Gigabit Ethernet LAN port, IEEE 1394b and PCIe, which allow IP-based HD camera connection and SD video capture card integration. Furthermore, dual HDD installation and RAID 0,1 are supported for critical data backup.

After successfully integrating the reliable NISE 3140M fanless computer into an e-police system in Tianjin, China, various tasks such as checking for speeding vehicles has become more efficient and accurate. Most importantly it exceeded all the Police's expectations.

About NEXCOM

NEXCOM International Co., LTD., an ISO-9001-certified company and a member of PICMG, PCI-SIG, and the Intel® Embedded Alliance, is at the forefront of the competition by offering OEM, ODM and OBM designs for products such as innovative blade servers; network security appliances; industrial and embedded PC products such as single board computers, embedded boards and systems; CompactPCI CPU boards; industrial-grade server boards; and customized platforms. Established in 1992, NEXCOM has since won several patents, awards, certifications for its high-quality products and service that meet international standards and worldwide customers' requirements. To serve its worldwide customers well, NEXCOM, headquartered in Taipei, Taiwan, has set up seven subsidiaries in the United States, the United Kingdom, France, Italy, Germany, China, Japan as well as distributors in the other parts of the world.