



Application Story

NISE Fanless Computer Systems Are Panel Beaters

A trusted fanless computer NISE 3110P2 is favored by a leading UK-based manufacturer of high quality composite insulated roof and wall cladding systems for the construction industry. Within its Holywell based production facility, it utilizes lines of cutting

saw machinery to form its innovative wall cladding systems' into the correct shape. Dust generating from the production process inevitably got into their factory based PC's causing the systems to become unreliable and ultimately fail.

It therefore became apparent that the manufacturer needed to source a new range of high-performance PC's which could operate in harsh, dust filled environments, and meet following expectations:

- A powerful Dual Core CPU processor
- A totally fanless design that could operate in dusty environments
- An industrial-grade design which offers exceptional reliability and reduced system downtime
- PCI expansion and additional Ethernet connectivity

In response to these application requirements, NEXCOM provided a smart solution in the form of the NISE 3110P2 fanless computer system. Featuring Intel® 945GME & ICH7-M chipsets, the NISE 3110P2 fanless PC supports Intel® Core™ 2 Duo with 533/667 MHz FSB and DDR2 667/533 memory. The powerful platform gives the manufacturer the computing power they required to perform various operations and run SCADA software.

For added flexibility, the NISE 3110P2 fanless computer offers three RS232 ports, one RS232/422/485 port and two PCI expansion slots. The Ethernet LAN ports enabled the NISE 3110P2 to communicate with PLCs. Housed in sealed aluminum chassis (195x 268x 107mm), the NISE 3110P2



▲ NISE 3110P2

Intel® Core™ 2 Duo, Core™ Duo, Celeron® M Fanless System with
2 x PCI Expansion Slots

fanless PC is designed for reliable, maintenance-free industrial computing; therefore suitable for operation in even dusty environments.

Initially the NISE 3110P2 fanless computers were installed on production lines in its Holywell (North Wales, UK) based manufacturing facility. With the outstanding performance and reliability, the NISE 3110P2 configuration has subsequently been installed in other production sites in North Yorkshire (UK), Dublin (Ireland) and Australia.

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.