

Fast service for deep down

“It is amazing, of all the many computers that we have, this is the one that has the highest load, yet it copes day in day out.”

Keith Wates, Systems Engineer and IT Support.

UK Coal's flagship deep mine at Daw Mill now makes extensive use of real time manufacturing information. During the project it was known that the performance of the Terminal Services Server would be critical to the success of the system. UK Coal selected SolutionsPT Advantech technology to deliver what they needed.

hardwarept
Industrial Automation Hardware

Client

UK COAL is Britain's biggest producer of coal, supplying around 7% of the country's energy needs for electricity generation.

The group has 5 ongoing deep mines located in Central and Northern England with substantial reserves and employs 4,000 people. It has 1 active surface mine and has received planning permission for a further 3 sites.

Industry sector

Mining and quarrying of energy producing materials

Challenge

To ensure reliable performance of the Terminal Services Server to provide support to the Wonderware Factory Suite System

Solution

Advantech 610 19" rack mount

Wonderware FactorySuite A2 System

Implementation

The Advantech 610 19" rack mounted computer was selected and is effectively a single board computer in a 19" rack chassis. In use this has proved to be very reliable and offering performance that is far higher than would be expected from its Pentium III processor.





hardware *pt*

Industrial Automation Hardware

HardwarePT offers a comprehensive range of world-class industrial hardware and connectivity tools suitable for all environments.

The Daw Mill mine in Warwickshire has completed an upgrade programme to replace its legacy MINOS system with a more supportable and effective WonderWare FactorySuite A² system. At the heart of this is the distribution of all information for control room, on site users and remote users by In Touch Terminal Services. The benefits of Terminal Services include lower cost workstations, very low MTTR (Mean Time To Repair) in case of failure and easier change propagation. However, a considerable load is placed upon the Server, and this has to be specified correctly and configured accordingly.

said, "The changing position of the coal face means that the system is always undergoing change, it is most noticeable that the now >100Mb application is very quick to upload to the 610 Terminal Server, and once done all changes are available without glitch to all operators and users."

A small step in the project – but one that delivers measurable performance despite the arduous operational load that is placed upon it.

We supply branded products and integrated solutions built with leading edge technology to support key industrial requirements such as Industrial Ethernet, Embedded Computing, Wireless Technology, Data Acquisition, Industrial Connectivity and High Availability Servers.

An Advantech 610 19" rack mount computer from SolutionsPT was selected. This has a passive motherboard, all peripheral cards simply being inserted in the slots there. In the configuration that UK Coal required this was in fact undertaken by one single CPU card, with integrated Ethernet Controller and Hard Drive interfaces – effectively a single board computer in a 19" rack chassis. The UK Coal Server having 15 on site users, 3 engineering users and up to an additional 10 portal enabled users (including continuous remote equipment condition monitoring).

We present a complete range of services and support packages for longevity supply including design work, custom builds, legacy support, on-site repairs and site scans. In addition we offer pre-sales and post-sales consultancy delivered with first class technical expertise.

In use this has proved to be very reliable and offering performance that is far higher than would be expected from its Pentium III processor. Keith Wates, Systems Engineer and IT Support said, "It is amazing, of all the many computers that we have, this is the one that has the highest load, yet it copes day in day out." Additionally, Lance Rowland, Network Engineer,

solutions *pt*

Industrial Automation Solutions

SolutionsPT is a leading supplier of manufacturing solutions to major companies across the UK and Ireland. Using world class industry expertise, quality training and support facilities and a proven range of software and hardware products, SolutionsPT specialises in building manufacturing management solutions that can increase productivity and supply corporate management with the information they need to make sound business decisions.

HardwarePT, Unit 1, Oakfield Road, Cheadle Royal Business Park. Cheadle SK8 3GX

Telephone: +44 (0) 161 495 4696 Fax: +44 (0) 161 495 4690 Email:hardwarept@solutionspt.com Web: www.hardwarept.co.uk a trading name of *solutions pt*