Waterproof dual-port information panel for mining applications



Overview

Panel PC for the mining industry Find your panel pc for the mining industry easily amongst the 186 products from the leading brands (Winmate, DFI, Emdoor.

Key Takeaways

Rugged, IP66-rated dual-port panel PCs and displays are available for mining applications, offering waterproof protection, industrial connectivity, and compliance with hazardous area certifications.

Key Features

Waterproof and Dustproof Protection: Panels designed for mining environments often feature IP66-rated enclosures, ensuring protection against dust, debris, and water ingress, making them suitable for underground or surface mining operations.

Dual-

Port Connectivity: Many industrial panels support dual Ethernet or serial ports, enabling simultaneous connection to PLCs, SCADA systems, or other monitoring devices for real-time data collection and process control. Rugged Design: These panels are built to withstand vibrations, extreme temperatures, and mechanical shocks, often using no-air potting for internal components to prevent failure in harsh conditions. Certifications for Hazardous Areas: For mining sites with explosive atmospheres, panels may carry ATEX Zone 2, IECEx Zone 2, or UL/cUL Class I Division 2 (C1D2) certifications, ensuring safe operation in potentially hazardous environments.

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Compatibility with Industrial Systems: Panels are compatible with various PLCs and SCADA software, allowing seamless integration for process visualization, equipment monitoring, and control. Versatile Mounting Options: Panels can be wall-mounted, panel-mounted, or integrated into machinery, providing flexibility for installation in control rooms, mobile equipment, or field stations.

Recommended Solutions

Winmate Mining Panel P

Cs: ATEX Zone 2 and C1D2 certified, designed for remote data collection and process control, with ruggedized enclosures and potting for vibration resistance. Eaton Mining Panels: Provide safe and reliable control for dewatering pumps, ventilation systems, and portable mining equipment, with cCSAus certification and robust enclosures for harsh electrical installations.

Moxa Rugged HM

I Panels: IP66-rated, compatible with PLC/SCADA systems, certified for hazardous and outdoor environments, suitable for oil, gas, marine, and mining applications.

CD

S IP66 Monitors: Waterproof industrial displays with durable stainless steel enclosures, ideal for outdoor or wet mining environments.

Considerations for Selection

Environmental Conditions: Ensure the panel's IP rating and temperature tolerance match the mining site conditions. Hazardous Area Requirements: Verify ATEX, IECEx, or C1D2 certifications if operating in explosive atmospheres. Connectivity Needs: Confirm dual-port support for Ethernet, serial, or other industrial communication protocols.

Integration: Check compatibility with existing PLCs, SCADA systems, and software platforms. Maintenance and Durability: Look for panels with sealed enclosures, vibration-resistant design, and easy cleaning for dusty or wet environments. These panels provide reliable, safe, and efficient solutions for mining operations, ensuring continuous monitoring, control, and data collection even in the most challenging conditions.

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Article Content

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Waterproof Monitors & Panel PCs

Blue Line''s Waterproof Monitors and Panel PCs are fanless and without moving parts. A power-efficient design and the absence of moving parts eliminate the

Stainless Industrial Panel PC | Waterproof Display

The U Series Panel PC feature underside waterproof connector and tailored for applications with strict hygiene requirements. Powerful Intel''s computing platform

WIO IP66 Waterproof Touchscreen Computer – Premio Inc

This all-in-one rugged panel PC is deployable for applications in surface and underground mining, heavy industrial HMI, manufacturing, Smart

Waterproof IP66 Monitor solutions for industrial applications

Our lineup includes advertising kiosks, digital totems, wayfinding screens, double-sided signage, and drive-thru monitors. From IP66-rated stainless steel panel mount touch screens to IP65/IP66

Panel PCs Made Tough

Engineered for demanding environments, Moxa''s industrial-grade panel PCs are ideal for HMI applications. No matter the environment, these panel PCs deliver durability and efficiency.

Industrial Panel PC | High-Performance Computing

Our industrial panel PCs combine cutting-edge technology with rugged design to deliver reliable performance in the most demanding conditions. Built to withstand

17-inch IP67 Windows PC

The Panel PC supports a 21.5" industrial grade LCD with 5 wires resisitve touch screen that allows operation with gloves. All the I/O ports are built with M12 waterproof connectors. Other options

Reliable Industrial Monitors by TouchThink – Your Trusted IPC Brand

TouchThink industrial touchscreen monitors are specialized computing displays designed to withstand harsh environmental conditions and rigorous usage in industrial settings.

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Waterproof LCD Monitor And Touchscreen Solutions

Waterproof LCD monitor and touchscreen from the manufacturer. Buy water resistant LCD monitor – the best solution for mining machinery, medical devices and more others. All weather, Rugged, Optically

Mining Panels Product Selection Guide

Introduction - Why Eaton? Eaton fuels your continuous improvement, gives you confidence in your operations, and keeps your people and equipment safe. Eaton''s robust portfolio drives energy

Underground Mining: Digging Deeper with Powerful All

Premio''s WIO series, a family of waterproof industrial panel PCs, had already demonstrated a high IP (Ingress Protection) rating and was customized

Waterproof IP66 Monitor solutions for industrial applications

Waterproof IP66 Monitor solutions - Custom Solutions Designed For Your Application CDS specializes in tailored display solutions, including panel mount displays, industrial touch screens, rugged LCDs,

Write In Private: Free Online Diary And Personal Journal | Penzu

Penzu is a free online diary and personal journal focused on privacy. Easily keep a secret diary or a private journal of notes and ideas securely on the web.

Waterproof Panel Interface Connector with RJ45 and 120V AC Outlet

The gasketed housing provides a NEMA 4, 4X, 12, and IP65-rated seal, making it ideal for outdoor and industrial applications. For quick and easy installation, this panel interface connector mounts with

Waterproof Industrial Embedded Panel PC

Applications Across Industries The waterproof YC-15EM excels in environments where durability and reliability are critical: Manufacturing & Automation: Control machinery, monitor

Xenarc Rugged IP67 Waterproof 10.1" Capacitive Touchscreen

Xenarc Rugged IP67 Waterproof 10.1" Capacitive Touchscreen with Optically Bonded Panel Industrial & Automotive Grade with HDMI, VGA, USB, DVI Video Inputs 9V DC ~ 36V DC - 1029GNH

IP67 Waterproof Dual Panel-Mount USB-A 2.0 Female-Female Cable

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This part''s IP67 rating means it can be submerged up to 1m (3.3f). As opposed to IP68, which covers a depth greater than 1m. Perfect for extending USB ports to a flying bridge, marine dash panel,

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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