

Article Overview

Fibernet offers advanced fiber optic KVM over IP solutions in Israel, integrating high-density fiber infrastructure with distributed command center control for secure, scalable, and multimedia-rich environments.

Overview of Fibernet KVM Architecture

Fibernet's KVM over IP systems are designed for command centers, data centers, and secure control rooms, providing centralized and distributed control over multiple devices and video sources . The architecture supports:

- o Matrix switching and video wall control: Full integration with LED, DLP, and LCD walls for real-time monitoring and management .
- o Distributed and decentralized control: Each node can operate independently while remaining part of a unified system, enhancing redundancy and scalability .
- o Peripheral integration: Supports dry contact sensors, RS232 devices, and 220V power circuits, allowing comprehensive environmental and equipment management .
- o 4K resolution support: Ensures high-quality video transmission over IP for critical monitoring applications .

Fiber Optic Infrastructure

Fibernet leverages high-density fiber optic solutions to enable efficient, secure, and scalable KVM deployments . Key features include:

- o End-to-end FTTx networks: Full deployment from backbone to endpoints, supporting high-speed, low-latency connections .
- o Modular and upgradeable design: STAR high-density data center solutions allow easy maintenance and expansion in minimal space .
- o Active and passive optical components: Use of splitters and custom fibers to support multiple users on a single fiber, reducing equipment footprint and enhancing scalability .
- o Cybersecurity integration: Hardware-based defenses protect AV and KVM systems from malware and information leakage, critical for government and defense applications .

Applications and Use Cases

- o Government and Defense: Secure command-and-control centers with real-time monitoring and multi-source management .

- o Telecommunications and Data Centers: High-density fiber KVM solutions for managing servers, storage, and network equipment efficiently .
- o Medical and High-Tech Industries: Customized fiber solutions for sensitive equipment and semiconductor assembly, ensuring reliable and secure operations .

Advantages of Fibernet's Solution

- o Scalability: Easily expands to accommodate additional devices or users without major infrastructure changes .
- o High Security: Combines fiber optic transmission with hardware-based cybersecurity measures .
- o Centralized and Remote Management: Operators can control multiple systems from a single interface or remotely over IP .
- o Integration with Existing Systems: Compatible with conventional video wall matrices and other command center instruments . Fibernet's fiber optic KVM architecture represents a comprehensive, secure, and flexible solution for organizations in Israel requiring high-performance command center and data center management, combining advanced fiber infrastructure with IP-based KVM control and multimedia integration .

As a private company with its own production facility, Fibernet has adopted a boutique approach where every project receives the

Fiber optics are the fastest means of accessing the center of the country and is a great potential for the Israeli

CONSIDERATIONS FOR FIBER-BASED KVM EXTENSION If you're sending KVM signals between buildings for an extended

SECURE Fibernet develops, manufactures and markets an extensive range of fiber optic multimedia & cyber products for IT

Leading the World in KVM Innovations World acclaimed for innovations that drive connectivity and access solutions, ATEN brings

The AV Access 4KIP500F-KVM KVM extender offers zero-latency 4K Ultra HD HDMI signal transmission over a

- Blocker KVM - Fibernet - Cybersecurity & Fiber Optic Solutions for Advanced Infrastructure - Fibernet

When exploring the Fiber Optic Telecommunications industry in Israel, several key considerations come into play. The regulatory



Israel Fiber Optic KVM Architecture Solution

Fibernet develops and manufactures innovative tech-driven end-to-end solutions in the fields of cyber-security, Pro-AV, and fiber

The DKM FX system enables flexible, instantaneous, and reliable matrix switching and extension of high-quality video, audio, and

1. Introduction The ATEN KVM over IP Matrix System is a solution that combines KVM over IP Extenders with the KVM over IP

According to a study by the World Bank, Israel's rapid and extensive deployment of fiber

Fibernet provides custom-made fiber optic solutions, utilizing its in-house optic and electronics expertise to support customers from

Fibernet designs and implements advanced cybersecurity and fiber optic solutions. Expertise from specialty fibers to large-scale

VE882 - Aten - HDMI Optical Extender / HDMI Fibre Optic Extender (1080p@600m) Video Extender (VE Range) The VE882 is an

Fibernet's Fiber Blocker secure KVM provides hardware cybersecurity, preventing attacks and information leakage between devices

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