



ATEN KG0016

ProdCode: ATENKG0016

16-Port KVM over IP OmniBus Gateway



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Features

- 16-Port KVM over IP OmniBus Gateway
- Simultaneously shares 16 independent connections to the attached servers
- The intuitive WinClient AP's supports of an Array View and a Control View – enables users to monitor all servers and control a specific server concurrently
- Panel Array Mode™ Live+ – real-time monitoring of livestreamed video feeds from all ports in a configurable multiscreen layout
- High-grade security – supports TLS 1.3 and an embedded FIPS 140-2 certified OpenSSL cryptographic module (Certificate #4282)

Sustainability is pivotal in modern business, with IT/OT convergence at the forefront of innovation. This union not only heightens competitiveness but also enhances responsiveness to market demands, particularly concerning data security and network uptime. With the rise of digitalization in industry, cybersecurity's role in bolstering IT-OT synergy is crucial.

The DigiKVM™ – KG0016/KG0032 exemplifies this digital shift. This all-digital KVM over IP OmniBus Gateway champions digital transformation in spaces like server rooms and data centers. Through a secure portal, it offers centralized management and real-time remote server access. Regardless of the data signal type from the linked KVM DigiProcessor, all transmissions are digitized and protected, ensuring fast, clear video monitoring with remarkable visual accuracy.

The all-digital KVM over IP solution stands out for its robust security and versatile OS compatibility. It also presents a reliable way to manage remote IT access with out-of-band (OOBM) connection, especially when the in-band connectivity is compromised. For geographically spread businesses, it's a boon, enabling IT to quickly reinstate services and minimize business downtime.

Distortion Free | Strengthened KVM Ports with Advanced High-Voltage Isolation and Suppressed Electromagnetic Interference

All KVM Ports from both the KVM DigiProcessor or KVM over IP OmniBus Gateway are equipped with advanced high-voltage isolation and noise filtering that help suppress electromagnetic interferences thereby safeguarding against factors such as lightning strike that could potentially cause significant damage to the chip. This enhancement ensures that digital KVM over IP transmission maintains signal integrity and reliability in network communication.

Delay Free | Real-time and Concurrent Remote Access, Anywhere and Anytime

The All-digital KVM over IP OmniBus Gateway allows real-time, up to 32 concurrent remote user access to any connected servers regardless where and when the login takes place. Server connection can be extended up to 100m away, delivering extraordinary FHD visual clarity and agile user experience with smooth keyboard-video-mouse synchronization.

10x Faster | Superb Virtual Media Data Transfer Rate for Prompt Server Updates

Mapping media to a remote server as though it were saved locally does the trick for

timely troubleshooting, reducing travel cost and minimizing MTTR (Mean Time to Repair). With a superb data transfer rate (i.e. Read: 265 Mbps, Write: 188 Mbps) proven to be 10 times faster than standard KVM over IP switches, performing firmware upgrades, diagnostic tests, file transfers, and installing software and application patches can all be accomplished smoothly and quickly from a single console located anywhere.

100x Greater | Superior Livestreamed Video Refresh Rate with Panel Array Mode™ Live+

Real-time monitoring is effortless with Panel Array Mode™ Live+ where content of a dedicated server is displayed in 24-bit true color and up to 1920 x 1200 @60Hz in a control-view window, while the video from all servers is presented in a multi-view grid layout which is variable as needed (up to 4x4 with KG0016 or 4x8 with KG0032). The video feed in both the control and array views is livestreamed with a refresh rate significantly 100 times greater, providing extraordinary smoothness for optimized situational awareness, when compared to standard KVM over IP switches.

Agile and Effortless Installation | Industry's Most Compact KVM DigiProcessor to Maximize Rack Space Efficiency

The 0U-housed KVM DigiProcessor, available in VGA, DVI, HDMI, and DisplayPort connectivity, is 25% lighter and ¼ the size of comparable products, offering flexible, optimized in-rack server connections and straightforward installation without requiring additional adapters. The anti-bending SR hanger allows for flexible yet stable in-rack installation, while the indented groove on both sides is intended to prevent the device from falling loose when tied onto the rack. In addition, the heat radiating fins are purposed to boost airflow efficiency to ensure system reliability.

All-Digital KVM over IP Transmission Safeguarded with Robust Security

The KVM over IP OmniBus Gateway, equipped with a proprietary OS in a closed system, provides a single secure portal to centralize BIOS-level connections to PCs / servers without requiring any extra software installation or configuration. All servers are remotely accessible via a Java-Free HTML5 WebClient Viewer or an advanced WinClient Viewer, delivering all-digital KVM over IP data transmission safeguarded with TLS 1.3 and FIPS140-2 level-1 certified encryption.

Accelerating Digitalization via Digital Twin Model

With the deployment of the KVM over IP OmniBus Gateway and the KVM DigiProcessor, equipment data collected in the production line can be monitored and processed in real time via a remote console, preventing the need to constantly enter

the production line or clean room for operations. This approach facilitates manufacturing digitalization via setting up a digital twin model to streamline and optimize production line processes.

Out-of-Band Management for Any Contingency

With the management network and production network separated, the KVM over IP OmniBus Gateway connected to the management network allows the IT operator to perform timely troubleshooting (e.g. software patches, image updates, reboots, etc.) and system maintenance over the servers via BIOS during the downtime of the production network. This approach can serve as an emergency measure in contingencies while keeping data and workflow secure from end to end.

Superior Hardware Performance to Reinforce System Reliability and Usability

The KVM over IP OmniBus Gateway is built in with 4x server-grade smart fan modules, facilitating all-around airflow efficiency for strengthened system reliability. When the system is idle or under light workload, the fan then runs in a low hum under 40 dBA. In addition, the front panel pushbuttons can be used to perform timely troubleshooting with prompt device configuration and system reboot in contingencies, and also locked to secure system settings from unauthorized access.

Applications

The All-Digital KVM over IP solution facilitates seamless IT/OT convergence with comprehensive server management, and is perfectly suited to various industrial applications that are accelerating towards digital transformation.

IT Infrastructure Management

- BIOS level access
- Superb Virtual Media read/write data transfer rate
- TLS 1.3 & FIPS140-2 encryption

Information Visualization

- Up to 16 concurrent remote user access to any connected server
- Real-time remote monitoring and control
- Panel Array Mode Live+ with livestreamed video feed

Production Automation

- Delay-free Remote Control

- Real-time remote monitoring and equipment access
- Panel Array Mode Live+ with livestreamed visuals from production line equipment

Remote Monitoring & Control

- Up to 16 concurrent remote user access to any connected server
- Panel Array Mode Live+ with livestreamed video feed
- Superb Virtual Media read/write data transfer rate

In the box:

- 1x KG0016 16-Port KVM over IP OmniBus Gateway
- 1x footpad set (4 pcs)
- 1x mounting kit
- 2x control terminal blocks
- 2x power cords
- 2x Lok-U-Plugs
- 1x Lok-U-Plug installation tool
- 1x user instructions

