

Moxa's New All-in-one Industrial Secure Router for Safeguarding Industrial Applications

Unterschleißheim October 14, 2021—Moxa Inc., a leader in industrial communications and networking with a focus on securing industrial networks, has introduced the new EDR-G9010 Series. These industry-certified all-in-one firewall/NAT/VPN/switch/routers act as a robust first line of defense for industrial networks in diverse applications such as smart manufacturing and critical infrastructure. Moxa's EDR-G9010 Series industrial secure routers offer 10-port GbE performance and defense-in-depth security capabilities to fulfill the needs of bandwidth-hungry applications that require field-proven reliability and multi-layered security.

With more and more cybersecurity incidents occurring in operational technology (OT) systems, enhancing industrial network security becomes a key priority for business owners and chief security officers. However, in OT environments, network requirements are not just concerned with security, but also focus on keeping operations functioning smoothly.



“With the launch of the new EDR-G9010 Series, Moxa brings a tailor-made network security solution for OT environments”, says Kevin Huang, Product Manager at Moxa Networking. “We recommend our customers to use the EDR-G9010 Series industrial secure routers to segment their networks as a first line of defense and prevent threats from propagating to the rest of the network. Furthermore, users can leverage its advanced OT Deep Packet Inspection (DPI) technology, firewall, NAT, and VPN features to achieve multi-layered security. Last but not least, the 10-port Gigabit performance, faster boot time, and Layer 2/Layer 3 redundancy help ensure the availability of industrial networks. The EDR-G9010 Series combines all these powerful functions into a single compact, rugged, industry-certified industrial secure router. Overall, the EDR-G9010 series will be Moxa's future proof secure routing platform, with additional capabilities being added over time.”

The EDR-G9010 Series industrial secure routers offer:

Advanced Network Protection with Network Segmentation and Advanced DPI

Within one field site, the EDR-G9010 Series industrial secure routers can help build a security boundary by segmenting OT and IT networks and feature advanced DPI technology to give users more granular control over network traffic by filtering industrial protocols* based on the requirements of the application. Moxa will continuously extend the DPI protocol coverage. Starting with Modbus TCP/UDP and DNP3 Moxa will add specifically power market related protocols in 2022.

When remote connections across multiple sites are needed, the EDR-G9010 Series' embedded IPsec VPN ensures safe industrial network communication channels when accessing the private network from the public Internet.

Future-proof platform for OT Intrusion Prevention

The superb computing power of the EDR-G9010 platform enables it to run an Intrusion Prevention Module, which will safely block ransomware, malware, viruses and other cybersecurity threats in OT networks. This signature-based scanning technology will move traffic filtering and asset visibility in OT networks to an unprecedented level.

This module is licensed on demand and will be available by mid of 2022.

Better Performance with High Bandwidth and Faster Boot Times

With the number of connected devices constantly growing, the EDR-G9010 Series is capable of achieving high throughput while providing robust security, perfect for bandwidth-hungry applications. Meanwhile, the faster boot time helps reduce system downtime during regular maintenance or in the event of an emergency recovery situation.

More Versatility

The EDR-G9010 Series caters to the needs of different networks, whether it is the need for a firewall, network address translation (NAT), remote VPN communications, switching, or routing. These secure routers are also certified for IEC 61850-3/IEEE 1613, NEMA TS2, ATEX Zone 2, and Class I Division 2. The accessible and versatile all-in-one design makes these devices ideal for securing industrial applications such as in power substations, intelligent transportation systems, oil and gas, and smart manufacturing.

IEC-62443 hardened

Secure routers play a pyramidal role in security architecture and need to be security hardened. Hence EDR-G9010 hardware and software has been developed with Moxa's IEC-62443-4-1 certified process and is ready to meet the IEC-62443-4-2 requirements up to Security Level 2.

EDR-G9010 Series 10-port Gigabit Industrial Secure Router Highlights

- All-in-one firewall/NAT/VPN/switch/router
- 8-port TX GbE and 2-port SFP GbE
- Comprehensive redundancy mechanisms, including Turbo Ring and VRRP
- Wide -40 to 75°C operating temperature (-T model)
- Advanced Deep Packet Inspection (DPI) for Modbus TCP/UDP and DNP3 traffic and 104 and MMS (available in Q1, 2022).
- Certified for IEC 61850-3, NEMA TS2, ATEX Zone 2, Class I Division 2, EN 50121-4, DNV, IEC-62443-4-2 SL 2 (available in Q4 2022).

To enhance network security visibility, the EDR-G9010 Series is also compatible with Moxa's MXview network management software. With MXview, users can e.g., visualize the achieved security level of IEC-62443 ready Moxa devices, perform regular configurations backups, and have an at-a-glance overview of the network's performance.

With the launch of the EDR-G9010 Series industrial secure routers, Moxa has expanded its secure network infrastructure portfolio to cover a broader range of industrial applications and introduced more granular control over industrial networks to fulfill its ongoing commitment to protect the connectivity of industrial environments.

For more information about the EDR-G9010 Series, please visit the [product page](#) or [watch the video](#).

For Moxa's industrial network security solution, please visit www.moxa.com/Security.

About Moxa

Moxa is a leading provider of edge connectivity, industrial computing, and network infrastructure solutions for enabling connectivity for the Industrial Internet of Things. With over 30 years of industry experience, Moxa has connected more than 71 million devices worldwide and has a distribution and service network that reaches customers in more than 80 countries. Moxa delivers lasting business value by empowering industry with reliable networks and sincere service for industrial communications infrastructures. Information about Moxa's solutions is available at www.moxa.com.

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