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SEQRITE'S INDIA CYBER THREAT REPORT 2025 REVEALS ALARMING CYBER THREAT TRENDS IN POWER & ENERGY SECTOR

Seqrite, the enterprise arm of global cybersecurity solutions provider, Quick Heal Technologies Limited, has revealed concerning findings about the state of power & energy sector with respect to malware detections. The report, prepared jointly by researchers at Seqrite Labs, India's largest malware analysis facility, and the Data Security Council of India (DSCI) reveals that the Power & Energy sector has become a prime target for cybercriminals, accounting for 29% of all malware detections in 2024.

Over 15,000 malware detections were recorded across 2,132 endpoints in the sector, indicating a high level of targeted attacks. This translates to an average of 7 detections per endpoint, highlighting the persistent and sophisticated nature of these threats. This alarming statistic highlights the sector's vulnerability and its attractiveness to threat actors seeking to compromise critical national infrastructure.

The most prevalent malware identified in the sector was LNK.RaspRobin.48713, a particularly insidious threat that spreads via malicious shortcut files on removable media such as USB drives. This malware establishes connections to external servers, enabling it to download additional malicious payloads and establish persistence on infected systems.

transfer data between air-gapped systems.

To address these growing threats, Seqrite recommends that organizations in the Power & Energy sector implement advanced endpoint detection and response (EDR) solutions, conduct regular cybersecurity awareness training for employees, and develop robust incident response plans. Furthermore, strict policies should be enforced regarding the use of removable media, and network segmentation should be implemented to isolate critical systems from potentially compromised networks.

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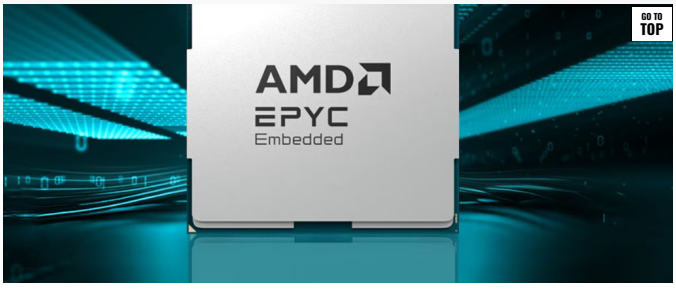
AMD EXPANDS X86 EMBEDDED PROCESSOR LINEUP WITH 5TH GEN EPYC EMBEDDED PROCESSORS



AMD has announced the expansion of its x86 embedded processor lineup with the introduction of the **5th Gen AMD EPYC™ Embedded 9005 Series**. These new processors are engineered to meet the evolving demands of embedded applications, delivering **high-performance computing, energy efficiency, and enhanced system resiliency**. Built on AMD's **"Zen 5" architecture**, these processors are designed to power networking, storage, and industrial edge systems, allowing them to process **data faster and more efficiently**.

Addressing the Growing Demands of AI, Networking, and Edge Computing

With increasing AI-driven network traffic, rising storage demands, and the expansion of industrial edge computing, **high-performance embedded platforms are more critical than ever**. Salil Raje, **SVP and General Manager of Adaptive and Embedded Computing at AMD**, highlighted the need for **greater compute efficiency** in embedded systems, emphasizing that AMD's latest processors offer industry-leading **performance, efficiency, and reliability** for "always-on" environments.

Unmatched Core Density, Performance, and Energy Efficiency

The **AMD EPYC Embedded 9005 Series** supports a **scalable core count** ranging from **8 to 192 cores in a single socket**, making it ideal for compute-intensive embedded applications. These processors offer:

- **Up to 1.3x higher data processing throughput** for networking workloads
- **Up to 1.6x increased performance** in storage applications
- **Improved energy efficiency** with the new **"Zen 5c" core architecture**, offering a **1.3x boost in performance per watt**
- **Expanded memory and I/O support**, including **up to 6TB of DDR5 memory** per socket and **160 PCIe® Gen5 lanes with CXL® 2.0**

These features enable seamless storage expansion, high-speed data transfers, and **optimized computing** for networking, security, and industrial applications.

Designed for Long-Term Reliability & Embedded Applications

To meet the long lifecycle demands of embedded markets, the **EPYC Embedded 9005 Series** offers:

✅ **Extended product longevity – 7 years of manufacturing support** and plans to extend design lifetime operation to ensure long-term system stability
✅ **Enhanced system resiliency** – Features like **Non-Transparent Bridging (NTB)** enable fault-tolerant multi-host configurations for **high availability and redundancy** in networking and storage solutions
✅ **Mission-critical data protection – DRAM Flush technology** prevents data loss during power failures by transferring it to non-volatile memory
✅ **Secure boot and authentication – Dual SPI bootloader support** ensures a **trusted execution environment**

Simplified Embedded System Development

The **EPYC Embedded 9005 Series** is designed to simplify **application development** through:

- **Yocto framework support** for customized Linux distributions
- **SPDK (Storage Performance Development Kit) and DPDK (Data Plane Development Kit)** for optimized performance in storage and networking applications

Industry Collaboration & Market Availability

AMD is working with major OEMs and technology leaders, including **Cisco and IBM**, to bring the **5th Gen EPYC Embedded processors** to market.

- **Cisco** selected the **EPYC Embedded 9005 Series** for its **high-end firewall products**, citing the processors' **scalability (up to 192 cores)** and **high memory & I/O bandwidth**.
- **IBM** is integrating these processors into its **Storage Scale System 6000** to enhance **data availability and connectivity for AI workloads**.

Availability

The **AMD EPYC Embedded 9005 Series** is currently available for **early access customers**, with full **production shipments expected in Q2 2025**. The processors retain compatibility with the **SP5 socket**, ensuring an **easy upgrade path** from the **previous EPYC Embedded 9004 Series**.

With **cutting-edge performance, advanced security, and long-term reliability**, AMD's latest embedded processors are poised to revolutionize **networking, storage, and industrial computing** applications.

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