



Advantech, Veridify Security, Arrow Electronics Join Forces to Offer Device-Level Cybersecurity Solution for Building Networks

Help eliminate cyber vulnerabilities in Building Management Systems with a new solution from Arrow Electronics utilizing Veridify DOME™ cybersecurity solutions and Advantech hardware.

Cincinnati, Ohio – June 14, 2022 – Advantech, a leading provider of industrial Internet of Things (IoT) and automation technology, and Veridify Security, a leader in IoT cybersecurity, have announced the release of an innovative device-level cybersecurity solution for new and existing building networks. Supported by the latest in Intel CPU technology, the end-to-end Advantech and Veridify Security solution will be available through Arrow Electronics.

Addressing growing cybersecurity concerns in connected buildings and management systems, Veridify Security and Advantech worked with Arrow Electronics to design a combined, Zero Trust solution based on Veridify's DOME™ platform. The new end-to-end solution utilizes Advantech devices with Intel CPU technology to protect and monitor new and existing building systems.

Buildings are becoming smarter and more efficient by connecting building systems, controls, and sensors to IT networks and the IoT. With more intelligent, connected building systems, OT (Operational Technology) and IT (Information Technology) systems have a rising convergence. However, the OT/IT convergence can also expose cybersecurity vulnerabilities that could disrupt building operations. Cyberattacks bring financial, operational, and intellectual property risks and can create an unsafe environment for building occupants. Recent studies show cybercrime could come at the cost of \$5.2 trillion worldwide, all within the next five years.

DOME is a complete SaaS (Software as a Service) platform that delivers Zero Trust and real-time cybersecurity protection. The DOME™ system creates a 'VPN-like' connection between all devices and controllers. DOME from Veridify builds a secure tunnel over the existing building network, authenticates all connected devices, and encrypts data and commands, creating a trusted environment for building devices running various aspects of building systems.

"Device-level cybersecurity using a Zero-Trust model is the only way to stop cyber-attacks before they happen and protect critical operational infrastructure in buildings," said Louis Parks, CEO of Veridify Security. "We are excited to work with Advantech and Arrow Electronics to offer a complete cyber solution that addresses real-time protection for new and existing systems."

A key element of Veridify's cybersecurity solution is its DOME Sentry, a standalone hardware device placed at the edge of a building network to protect an installed device or system. DOME™ Sentries feature zero-touch onboarding for fast and easy installation in front of a building device and provide authentication and data protection. In addition to the DOME Sentry, Veridify's DOME Interface Appliance (DIA) manages all onboarding, security credentials, and data logging within a building or campus. Powering the DIA is an Advantech industrial controller, the UNO-2271G-V2, which leverages Intel's Elkhart Lake dual-core CPU.

"Without proper security measures through industrial hardware and software, connections to OT networks can pose a vital threat to internal systems," said Carolyn Swan, director of IoT Partnerships, Advantech IIoT Group. "These attacks can wreak havoc on building systems. Advantech's industrial UNO-2271G-V2 Edge IoT Gateway, with the latest in Intel CPU technology, allows the DOME solution



to implement real-time monitoring and accurate data collection. We saw a great collaboration opportunity to lean on the cybersecurity expertise of Veridify Security to help design a complete, end-to-end cybersecurity solution. Additionally, Arrow Electronics' specialty in intelligent solution distribution will allow customers to acquire, test, and deploy the solution at scale."

The UNO-2271G-V2 Edge IoT Gateway includes the following features:

- Intel® Elkhart Lake Celeron® Dual core N6210
- 4GB/8GB DDR4 onboard memory
- Compact, robust, fan-less, and cable-free system with high stability
- Operating temperature -20 ~ 60°C / -4 ~ 140°F for deployment in industrial environments
- Modular design offers optimized basic unit with 2 x GbE, 2 x USB 3.2 Gen1, 1 x HDMI 1.4
- Optional second stack for increased functionality including PoE, COM, wireless connectivity (Wi-Fi, Bluetooth, Cellular LTE), or more than 20 additional I/O options via Advantech iDoor expansions
- Built-in TPM2.0 for hardware-based security

The full DOME solution protects a building's management system right to the edge using existing network protocols, such as BACnet. The system provides zero-touch onboarding to reduce time and errors from manual provisioning; a block chain pedigree helps ensure only authorized controllers and other devices at the edge can issue commands; and a low-cost security gateway used to retrofit security for existing, deployed devices. It is also crypto agile, supporting legacy and quantum-resistant security and safeguarding customers' investments with long lifecycle protection.

For the end-to-end solution, Advantech's leadership in industrial computing hardware and Veridify's cybersecurity software expertise were integral to delivering a differentiated SaaS cybersecurity solution running on Intel's 10nm Elkhart Lake CPU. With the support of Arrow Electronics, the solution has scalability for global systems integrators and end users.

For more information on the device-level cybersecurity solution, or to schedule a demo, reach out to ANA.smartspaces@Advantech.com. You can also learn more about the solution at www.advantech.com/resources/industry-focus/dome-device-level-cybersecurity.

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About Advantech

Founded in 1983, Advantech has the corporate vision to "Enable an Intelligent Planet." The company is a global leader in the fields of IoT intelligent systems and embedded platforms. To embrace the trends of IoT, big data, and artificial intelligence, Advantech promotes IoT hardware and software solutions with Edge Intelligence to assist business partners and clients in connecting industrial chains. Advantech is also dedicated to working with domain-focused partners to co-create solutions that deliver advanced solutions in Industrial IoT. Learn more about Advantech at <https://www.advantech.com/>.

About Veridify Security

Veridify Security provides device-level cybersecurity solutions for building automation and industrial IoT applications. More than just monitoring, Veridify's DOME SaaS platform offers tools for OEMs and System Integrators that deliver real-time protection to stop cyber-attacks before they happen. Veridify's expertise also includes cryptography innovation for securing low-resource embedded computing and wireless devices with quantum-resistant security to provide future-proof cyber protection. Veridify partners with leading semiconductor, OEM, and technology distribution companies to deliver device-level cybersecurity solutions with global reach. Learn more at <https://www.veridify.com>.