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- Post-quantum-resilient authentication
- Immutable hardware-rooted identity
- Certificate-free device authentication
- Trusted edge-to-cloud connectivity
- Scalable device lifecycle management
- Optimised for battery-powered and resource-constrained devices
- Lower total cost of ownership

Trust starts with an authentic identity

The world relies on connected networks, with billions of devices continuously exchanging data. Yet a single compromised node can undermine trust across an entire system, putting devices, services and data at risk. With CyberRock, trust is not just assumed. It is established, verified and maintained throughout the device lifecycle, so you can have full confidence in the devices, connections and data your business depends on.

CyberRock is a secure-by-design solution that protects every node and interaction in your connected network. It provides a common foundation for establishing and maintaining trust across systems wherever connected devices matter, from industrial IoT to critical infrastructure and aerospace & defence.

Delivering uncompromising trust at the silicon level, CyberRock supports recognised cybersecurity practices and requirements aligned with regulatory frameworks such as NIS2 and the EU Cyber Resilience Act. It integrates easily into devices and with existing device-management environments. No specialist in-house expertise or complex PKI infrastructure is needed, and deployments can be scaled effortlessly to billions of nodes – driving the lowest cost of ownership.

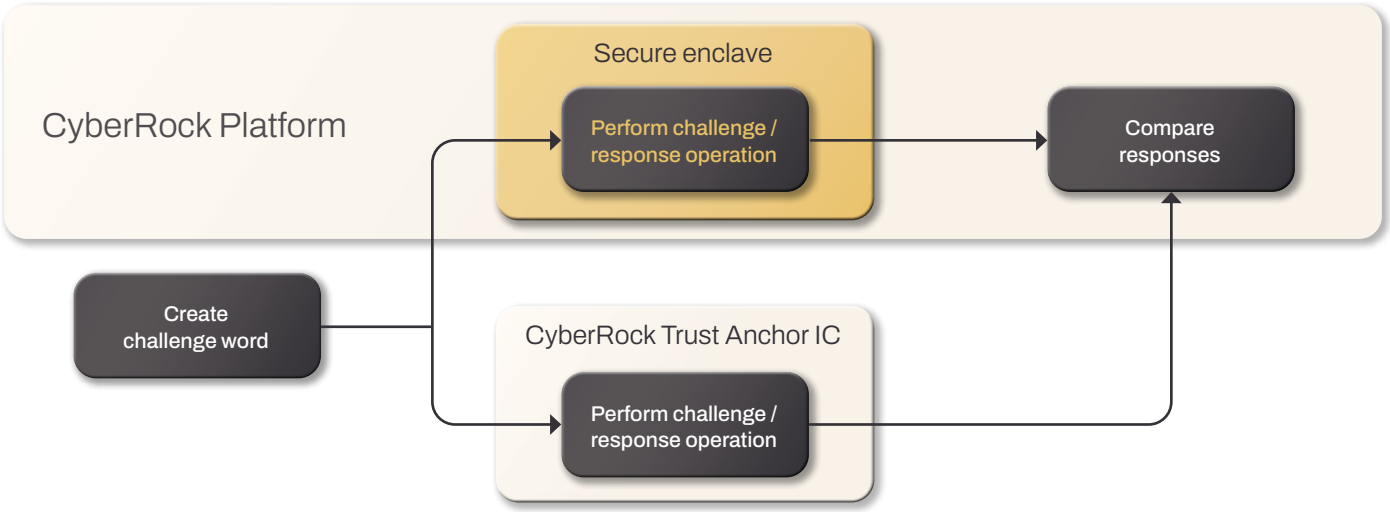
Don’t simply assume trust

Establish trust
CyberRock gives every connected device a unique and immutable identity at the point of manufacture providing a secure foundation for authentication and giving you confidence that devices connecting to your systems are genuine

Validate trust
Device identities can be authenticated remotely whenever required, so connected systems know who and what they are communicating with; securing all interactions and streamlining lifecycle management.

Maintain trust
CyberRock Trust Services protect devices, software, communications and data throughout the lifecycle, ensuring ongoing security and more resilient connected systems as threats and regulations evolve.

How CyberRock works



At its core, CyberRock comprises two main components. Designed for easy integration into any connected device, the CyberRock Trust Anchor IC features a unique, hard-coded identity and the hardware circuitry to perform a specific cryptographic operation (a symmetric HMAC). The CyberRock Platform centrally manages all the device identities and authentication requests.

For every authentication event, a unique challenge word is generated. The CyberRock Trust IC and the CyberRock Platform perform independent cryptographic challenge-response operations based on that word and their version of the device identity. Matching responses confirm that the device is authentic.

CyberRock Trust Anchor IC

- Unique and immutable hardware-rooted identity
- Secure HMAC-based authentication
- Ultra-low power consumption (<1 µW standby)
- Minimal processor overhead

CyberRock Platform

- Centrally administers CyberRock device identities
- Provides mutual symmetric authentication and real-time device verification
- No certificate management or specialist infrastructure required
- Connects with existing private, enterprise and public device-management environments

CyberRock Trust Services

- Provisioning
- Mutual authentication
- Secure communication
- Sensor data authentication
- Secure multi-level boot

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Do you know which devices you can trust?

Trust starts with knowing that any device connecting to your systems is authentic. Discover how CyberRock can help you establish, validate and maintain that trust throughout a connected device's lifecycle at **sandgrain.com**

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Web: **sandgrain.com**
Email: **info@sandgrain.com**
LinkedIn: **sandgrain-b-v**
Address: **High Tech Campus 9, Eindhoven, Netherlands**