

CRA

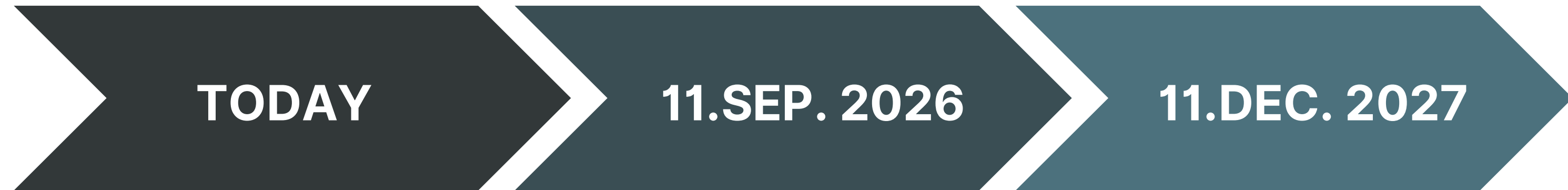
CYBER RESILIENCE ACT

*HOW TO KEEP YOUR
PRODUCTS SELLABLE
IN THE EU*



CRA WILL DECIDE WHETHER YOU CAN SELL IN EUROPE

CRA = Cyber Resilience Act, EU regulation



Immediate action required to retrofit existing lines

CRA reporting obligations begin

Main CRA obligations take effect. Unmodified legacy sales freeze.

WHY DOES THE CRA EXIST?

The escalation of connected threats



Hackers Remotely Kill a Jeep on a Highway | WIRED

<https://www.youtube.com/watch?v=MK0SrxBC1xs>

IS THIS YOUR PRODUCT?

CRA APPLIES TO:

Key definition:

Products (software or hardware) with **digital elements** with possible **data connections** to devices or networks, **made available** on the market.

EDGE AI DEVICES (VISION SYSTEMS, GATEWAYS)

INDUSTRIAL IOT DEVICES

SERVERS

EMBEDDED LINUX SYSTEMS

SOFTWARE APPLICATIONS (DRIVERS, OS, ...) ... AND MORE

CRA Requirements (excerpt)



SECURE BY DESIGN

Use state-of-the art security



SECURE BY DEFAULT

No default passwords („toast / butter“)



HANDLE VULNERABILITIES

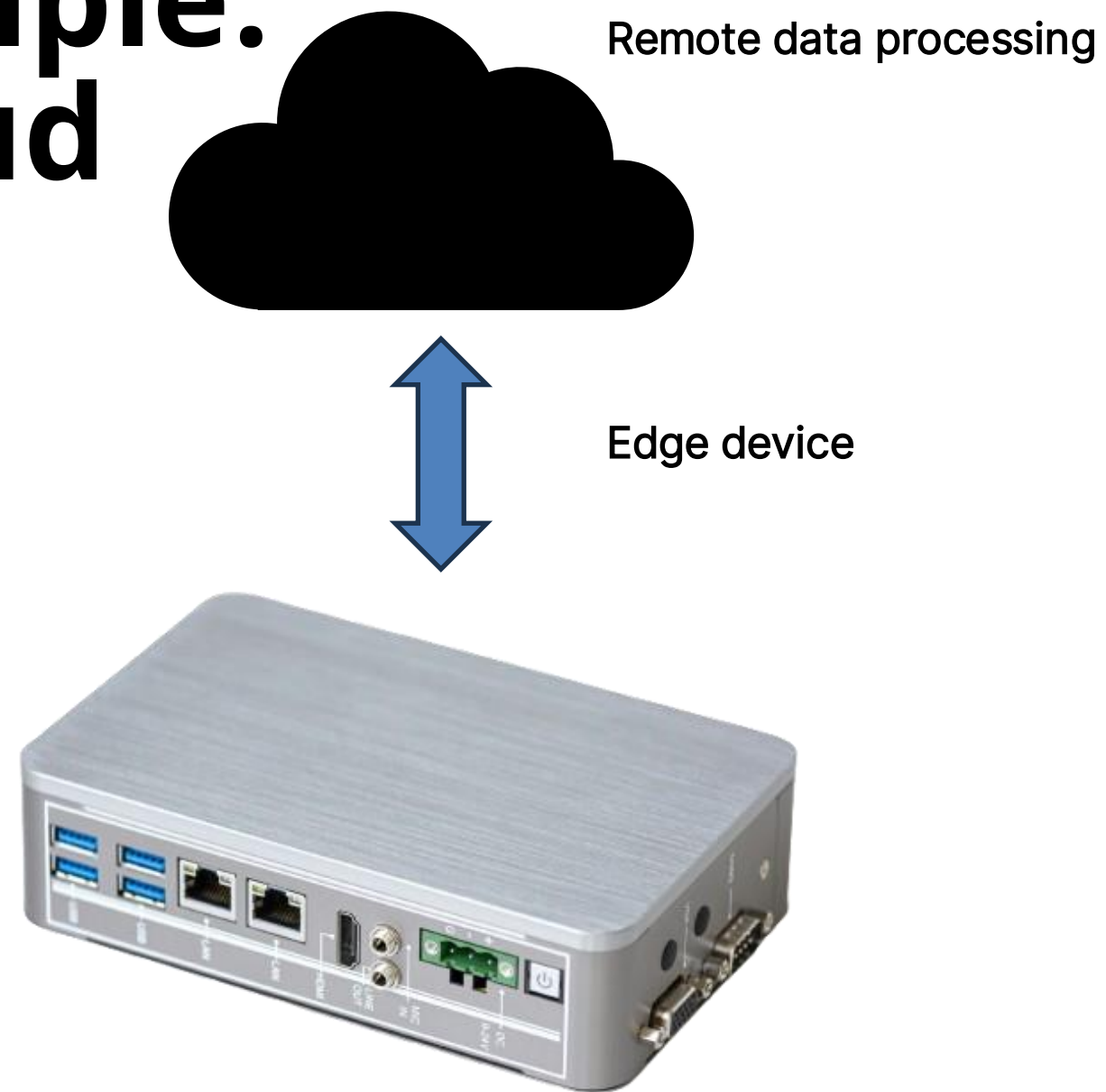
Report vulnerabilities (strict deadlines)



LIFECYCLE SUPPORT

Free OTA updates throughout the product's lifespan

Concrete example: edge IoT + cloud



Cybersecurity risk assessment

- Informs implementation of essential requirements

Ongoing support

- Regular security tests
- Report vulnerabilities
- (free) Security updates

Application:

Defect detection for car part manufacturing with local AI vision + cloud data transfer & further processing

Technical implementation

- Secure boot
- Data encryption
- Linux hardening
- OTA updates
- Logging & Reporting
- Remote attestation
- PQC (Post Quantum Cryptography)

Documentation

- Technical documentation
- SBOM
- User manual

CRA PENALTIES

The cost of inaction

Up to €15 Million
or 2.5 % of global revenue

Ultimate Penalty: A total ban on selling your products in the European market.

This is like GDPR for hardware.

WHAT ABOUT EXISTING PRODUCTS?

- ! Reporting (11. September 2026) affects **all products**.
- ! Placing on the market = for each individual manufactured unit of a type!
- ! Your current product line is likely **NOT** compliant!
- ! Manufacturers **can't** sell existing products as they are after **11th of December 2027**.

WHO IS pi3g?

Driven by Curiosity. Built on Expertise.

- *EMBEDDED COMPANY BASED IN LEIPZIG/ GERMANY*
- *INDUSTRIAL + IOT FOCUS*
- *18+ YEARS EMBEDDED LINUX EXPERIENCE*
*Hands-on engineering from microcontrollers,
SBCs, to server-side APIs*
- *FOCUS ON CRA SUPPORT*

pi3g
www.pi3g.com

OUR pi3g SOLUTION



Diagnostic:

We identify compliance gaps

Engineering:

- Secure boot
- OTA updates
- Hardening
- Encryption

Legal & Final:

Validation with legal partners

BECOME CRA-READY

We offer a CRA readiness assessment

- Risks in your product
- Actionable roadmap
- Optional implementation support

THANK YOU!

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