About Perseus

With over a decade pioneering Hypervisor and Hypervisor-based security as Xen ARM open source commmunity project founder (since 2007), Perseus guarantees that the automotive industry's top brands capture opportunities for enhanced security & performance in a connected world.

Our Solutions

PEGASUS
Hypervisor Solution

Reduce SoC HW & SW requirements by up to 75% in connected cars.

AEGIS
Hypervisor-based Security Solution

Secure in-car systems and devices and ensure optimal performance, even under DoS attack.

TACHYON
Linux Fast Boot Solution

Reduce boot speed for Linux powered rear view cameras from ~15 secs to just 2 secs.

Scan QR code
to download digital brochure

We're here to help!
Contact our team today

✉ contact@cyberperseus.com

🌐 **www.cyberperseus.com**

TACHYON

Linux Fast Boot Solution
for Connected Cars

Reduce boot speed for Linux powered devices like rear-facing safety cameras, from ~15 seconds, to just 2 seconds

Partners

RENESAS   GENIVI®

cyberperseus.com

TACHYON

Linux Fast Boot Solution

The Background:

30% of vehicles already carry at least one Linux-powered rear-facing safety camera. By 2023 that figure will increase to around 50%.

Autonomous vehicles will account for a ten-fold increase in the demand for Linux-powered cameras.

Linux is already the defacto device operating system. Optimization of Linux is the most efficient means of improving device performance in the automotive industry.

The Problem:

Linux-powered devices currently suffer from slow boot up speeds ~15 seconds. This impacts performance, and safety (in the case of rear facing cameras) and means devices fall short of regulatory requirements.
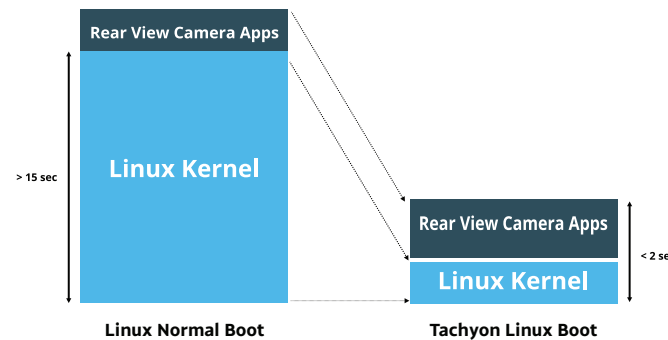
Our Solution:

Tachyon reduces boot up speed of Linux-powered devices from around 15 seconds to just 2 seconds, delivering dramatically enhanced performance and regulatory compliance.
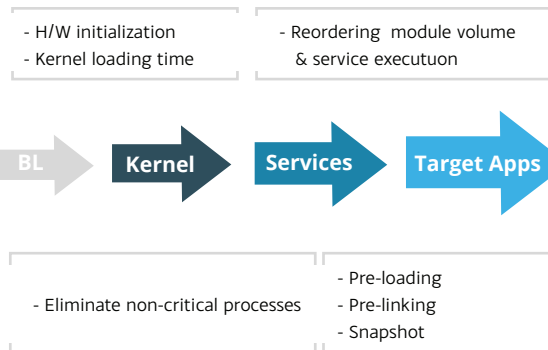
How It Works

Tachyon eliminates all non-essential boot processes, streamlining boot up and reducing time to full device operation. Tachyon is fully compatible with Linux OS, ensuring efficient and cost effective optimisation for any Linux-powered device.

Rear View Camera Apps	
Linux Kernel > 15 sec	Rear View Camera Apps
	Linux Kernel < 2 sec
Linux Normal Boot	**Tachyon Linux Boot**

A fully optimized default Linux kernel delivers greatly enhanced performance.

- H/W initialization - Kernel loading time	- Reordering module volume & service executuon

BL → **Kernel** → **Services** → **Target Apps**

- Eliminate non-critical processes	- Pre-loading - Pre-linking - Snapshot

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TACHYON - Key Benefits

✔ Reduce boot speed for Linux-powered devices from around 15 seconds to just two

✔ Ensure compliance with new regulations for rear view safety cameras

✔ Improve performance of in-car devices and solutions, such as HUD, telematics and infotainment systems

✔ Full compatibility with Linux operating system ensures optimal performance enhancement with existing engineering resources and minimal disruption for existing partners

• HW Compatibility: ℛENESAS ◉ nVIDIA. NXP Qualcomm etc