AI Acclerators	5G NR (Multi)	Wi-Fi (Multi)	Wide Voltage	PoE	Isolation	10 GbE	EN 45545	EN 50155

Smart Railway Computer Solutions

Telematics for Transportation Security and Efficiency, Plus Passenger Satisfaction

This evolution drives the need for embedded computers to have high performance, longevity, and reliability, fitting perfectly with railway environments. NEXCOM is dedicated and offers train PC featuring AI-powered, 5G NR, Wi-Fi 6E wireless connectivity, anti-shock design, metal dust proof ability, stable & wide range power supply, industrial-grade reliability, and extended product life cycle.

nROK Series

- Railway Computers – EN50155
- Intel Atom®/8th/9th Gen Core™/Xeon® CPU
- Fanless and rugged design
- 5G/LTE, Wi-Fi, BT, CAN, GPS + DR, PoE, and multi-SIM integration
- Optional isolated 24~110VDC power input
- AI applications with add-on GPU cards
- EN50155 & EN45545-2 certifications

vROK Series

- 10.4-inch all in one railway open frame panel computer – EN50155

vROK 3030

VTC 1911-IPK

nROK 1030

nROK 6222

nROK 7252

nROK 6221

nROK 7251

aROK Series

- Advanced AI Computers with GPU – EN50155
- Intel® 8th/9th Gen Core™/Xeon® CPU
- Designed for AI applications: driver assistance, track obstacle/intrusion detection, track maintenance, video analytics
- Selected NVIDIA GPU, Google TPU, and Hailo AI modules add-ons
- 5G/LTE, Wi-Fi, BT, CAN, GPS + DR, PoE, and multi-SIM integration
- EN50155 & EN45545-2 certifications

TAIWAN EXCELLENCE 2022

aROK 5510

aROK 8110

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< Data & Monitoring

NEXCOM

NEXCOM to Demonstrate Applications of Advanced Transportation Computer Technology at InnoTrans 2022

After 4 years, NEXCOM is hyped to highlight the strengths of its mobile computing solutions and domain know-how, by demonstrating a variety of applications, including train surveillance, its PIS (passenger information system), its ADAS (advanced driver assistance system), its AI edge computing system, and its smart bus application at InnoTrans 2022 in Berlin, Germany.
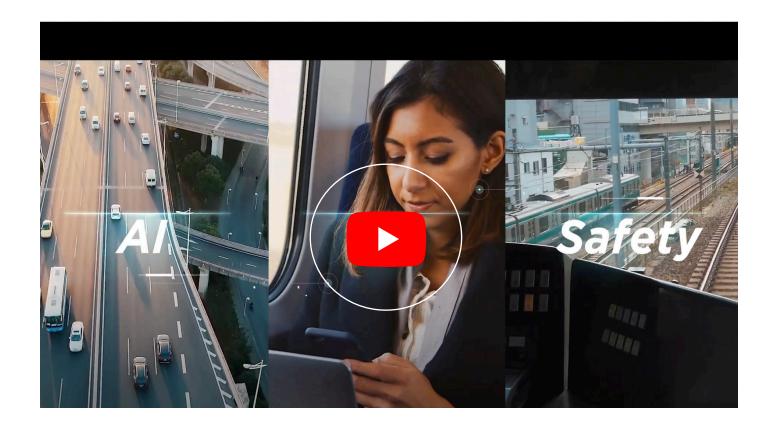

September 20~23, 2022
Messe Berlin GmbH ExpoCenter City
Hall 4. 1, Booth# 310

NEXCOM will present its recently announced **transportation computer series**, powered by the latest advanced processors and technologies. The exhibition will

take place at Messe Berlin GmbH on 20–23 September. Be sure to visit NEXCOM in **Hall 4.1, Booth 310**.

At the show, NEXCOM will map

out clear application diagrams by presenting multiple live and visualised solution demos, and introduce how NEXCOM's transportation computers apply to

a myriad of railway and in-vehicle vertical markets. With the aim of strengthening public safety, infotainment and security, NEXCOM will showcase its **video surveillance system, infotainment solution and media server**, with its latest train computer models and partners' software solutions targeting train service operators.

For the **video surveillance solution**, the train computer nROK 7252 will be connected between a VES31-4SR PoE switch and IP cameras, enabling operators to conduct extensive monitoring of on-board activities to ensure on-board security. The **infotainment solution** meanwhile will showcase long-range infotainment transmitting technology with NEXCOM's vehicle mount display VMD 3002, in-vehicle dual HDMI extender VIP 1000, and railway panel computer vROK 3030, which is capable of providing fast and steady real-time weather

information, real-time passenger information and entertainment throughout the cabin. The **semantic segmentation solution** will present AI edge computing with two live demonstrations – ATC 3530-IP7-4C for road and aROK 8110 for rail applications. NEXCOM will provide high-performance image analysis on both applications to create and maximise a safer riding experience for all passengers and pedestrians.

In addition, visitors will also be able to view the latest and highly popular solutions for public transit, such as our **bus ADAS solution** with the vehicle telematics computer

VTC 1021 and HAILO AI accelerator, and **in-train passenger counting system** with the railway computer nROK 1020 and DILAX sensor. Let us travel smarter, safer, and more efficiently than ever before.

To learn more about NEXCOM's smart mobility, don't miss InnoTrans 2022. Join NEXCOM to share your insights.

Event Details

- Date: 20–23 September 2022
- Location: Berlin, Germany
- Venue: Messe Berlin
- Our stand: **Hall 4.1, Booth 310**