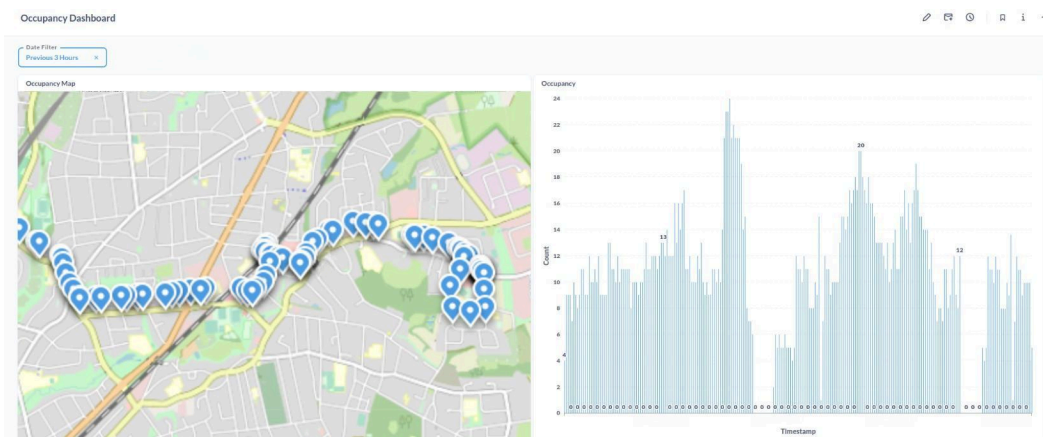


# Large German public transport operator deploys occupancy solution by NEXCOM and Isarsoft

In light of rapid urbanization and a steadily growing demand for mobility, many nations see public transportation as a sustainable solution to the mobility challenge. To provide a real alternative to individual transport and to solve the mobility challenge, public transport with its complex system of buses, trams, trains and train-stations have to become more efficient, user-friendly and intelligent.

A novel occupancy monitoring solution which utilizes existing security cameras has been successfully tested in several buses of a large German Public Transport operator. The solution, being deployed by a leading international systems integrator, consists of NEXCOM's cutting edge AI hardware and Isarsoft's AI Video Analytics Software Isarsoft Perception.

The solution provides real-time data about the occupancy levels of each vehicle, enabling passengers to make informed decisions about their travel plans and enables operators to monitor the fleet occupancy and location in real time.



**Categories:**  
Public Transport, AI, Smart City, Mobility, Transportation, Video Analytics, ITS

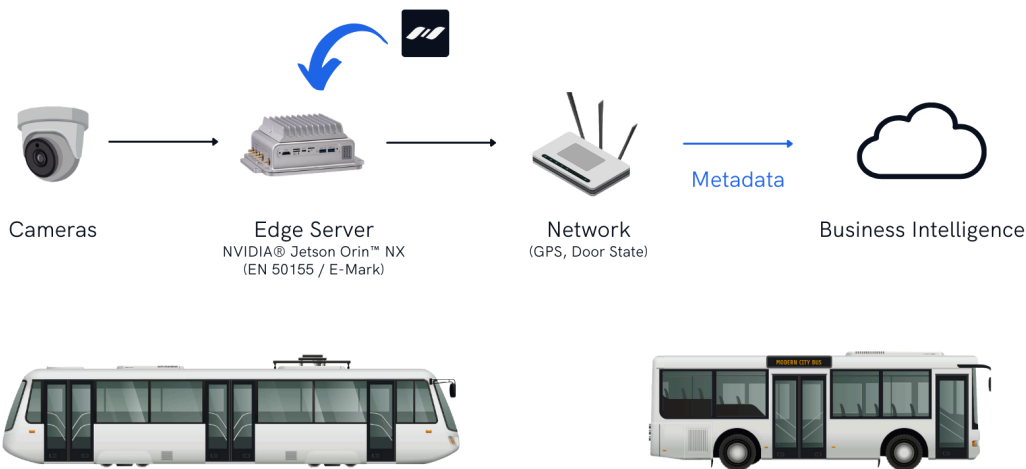
**Contacts:**  
Leo Chang, Assistant Vice President at NEXCOM's Mobile Computing Solutions

The occupancy solution works by using cameras installed in each vehicle to detect the number of passengers in real-time. The anonymous occupancy information is then sent to a centralized system that



aggregates information from all vehicles and displays it in an interactive web dashboard.

Oskar Haller, CEO  
Isarsoft



The application will allow passengers to check the occupancy levels of the upcoming vehicles, and plan their journey accordingly, avoiding crowded buses and trains.

Moreover, the transport operator can also use the data to optimize its services and allocate resources more efficiently. With a clear understanding of the passenger demand and occupancy patterns, the operator can plan the routes, frequency, and capacity of its vehicles to meet the needs of its customers.

Overall, the occupancy solution is a significant step towards enhancing the safety and convenience of public transportation. It is a testament to the operator's commitment to using innovative technologies to improve the overall travel experience for its passengers.

## NEXCOM Edge AI - NVIDIA Jetson Platform

NEXCOM is deeply committed to delivering rugged edge computing platforms that expedite the deployment of AI inference in harsh. Build with NVIDIA Jetson™ modules, NEXCOM offers a wide- ranging product portfolio that caters to various application needs, providing AI performance ranging from 20 TOPS to 275 TOPS.



### Designed for Harsh Environment

With a wide temperature range (OT -20/-30°C~70°C) and an IP67 rating (on selected models), NEXCOM's Edge AI platforms excel in critical missions and throughout their life cycle.



### Certified for Vertical Applications

To ensure product reliability and safety, NEXCOM's AI platforms are certified for in-vehicle/rail applications with CE/FCC, UKCA, E13, EN50155, EN45545-2, MIL-STD-810H certifications.



### Extensive Product Line Up

NEXCOM offers a diverse range of options, including devices powered by NVIDIA® Jetson AGX Orin™, Jetson Orin™ NX, Jetson Xavier™ NX, Jetson Orin™ Nano, and Jetson™ TX2, providing flexibility and scalability to meet various AI performance in model training or inference tasks.

## Moving Towards the Edge

The combination of Isarsoft's real time video analytics software Isarsoft Perception with NEXCOM's EDGE AI product portfolio opens the possibility to provision AI video analytics in rail and bus deployments.

Isarsoft Perception is leveraging DeepStream, TensorRT and Triton Inference Server for video analytics-based people counting for real-time analysis. Building on top of the NVIDIA Metropolis framework, Isarsoft Perception efficiently processes multiple camera streams in parallel. It is fine-tuned to maximize accuracy while operating at real time performance, scaling it for multiple cameras across various deployment environments including both embedded and server systems.


 ISARSOFT



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Oskar Haller  
CEO and Co-Founder Isarsoft GmbH

Leo Chang, Assistant Vice President at NEXCOM's Mobile Computing Solutions (MCS) Business Unit, proudly announces the initiation of a groundbreaking collaboration with Isarsoft, a leading Independent Software Vendor (ISV) specializing in AI-driven people counting solutions. This partnership has reached a significant milestone with the successful testing of a novel occupancy monitoring solution not only for static location and we see more opportunities for AI in motion in the Public Transport sector.

Chang emphasizes that this collaboration signifies the commencement of an exciting journey towards innovation, strengthening urban infrastructure, and contributing to the development of greener, smarter cities through the enhancement of public transit and passenger satisfaction. The joint effort between Isarsoft and NEXCOM create a new era in bus & rail artificial intelligence, fostering an ecosystem of sustainable partnerships.



## More about NEXCOM

Founded in 1992 and headquartered in Taipei, Taiwan, NEXCOM is committed to being your trustworthy partner in building the intelligent solutions. To surpass customers' expectations, NEXCOM makes the difference by utilizing its decades of industrial computing experience, a highly talented R&D team, and by providing exceptional levels of customer service. With these core strengths, NEXCOM has enabled its customers to win key projects in a diverse range of industries.

Contact: [NEXCOM](#)

## More about Isarsoft

Isarsoft is a Munich based video-analytics company founded in 2019. Isarsoft helps customers and partners to utilize the potential of security camera systems through artificial intelligence, developing video analytics solutions that impress with reliability, ease of use and a wide range of integrations.

Contact: [Isarsoft](#)