Improves Traffic Safety via Vehicle Recognition and Device Management

To improve road traffic and safety in many cities, a government team developed AI models that can recognize cars by types, brands, and license plates. With these vehicle data and accurate analytics, the team could work on launching a suitable traffic improvement project.

The team needed a huge amount of edge devices with sufficient computing performance for the AI model to function properly in many locations. Therefore, the team adapted more than 500 Aetina's customized systems powered by NVIDIA Jetson Xavier™ NX and closed-circuit television cameras, allowing the AI model to run the recognition tasks for vehicle data from the traffic analysis.

Furthermore, the Aetina's EdgeEye can efficiently manage hundreds of systems via intranet-connected devices, monitor real-time status of all devices, and support functions of reboot, shutdown, bootup, backup and recovery via out-of-band management modules, reducing maintenance costs.

Benefits

- Customized form factor designed to meet the specific scenarios
- Small-size and energy-efficient edge systems
- Defines custom threshold of hardware status with user-friendly interface management platforms

Results

- Reduces the high operation costs
- Improves traffic safety in cities