Can your AI adapt to changing real-world situations?

Situations change rapidly in dynamic environments, so AI can quickly lose its reliability. Latent AI accelerates your ability to gather, interpret, and respond to data, regardless of your location or connectivity. The Latent AI Ruggedized Toolkit (RTK) combines military-grade hardware with the Latent AI Efficient Inference Platform (LEIP). Regardless of your machine learning expertise, you can modify, retrain, and deploy Edge AI directly in the field.

**UPDATE**
The RTK optimizes the model on-device via a user-friendly interface for immediate redeployment.

**DEPLOY**
The updated model is deployed onto your drone or sensor as a highly efficient executable that can identify new and modified objects.

**COLLECT**
Gather new data and gauge the system performance from LEIP AI on your device.

**RE-TRAIN**
Users tune and train the model to their operational needs using the RTK interface, adapting the model's performance to specific situations.

For more information visit latentai.com or contact mlops@latentai.com
Latent AI Ruggedized Toolkit (RTK)

The RTK runs a mobile version of the Latent AI Efficient Interference Platform (LEIP), an all-in-one AI development kit that empowers developers of varying skill levels to build secure models ultra-fast, with seamless field updates.

Features

▸ Ruggedized Laptop
Military-grade hardware built to withstand harsh environments.

▸ Mobile LEIP Software
Mobile tools usable by non-machine learning experts to update, retrain and redeploy AI models.

▸ Flexible Integration
Easily integrated with partner data providers, like Esri, and existing MLOps tools.

▸ Fast Retraining
Deploy updated AI models in minutes, not hours.

▸ Real-time Diagnostics
Monitor model health and performance.

▸ Offline Operations
Sustain mission capability in dynamic environments with limited or no bandwidth.

▸ Ultra-Efficient AI
AI runs 30x faster, reducing storage needs up to 10x.

▸ DoD Certified
Secured AI pipeline meets the government’s stringent requirements (IL5/IL6 compliant) for handling sensitive data.

The RTK allows non-expert users to interpret results gathered, label that data on-site, and then retrain and redeploy all in the field.

LEIP and the RTK are actively used on multiple US Department of Defense (DoD) programs. The solution also works with Esri’s ArcGIS system to enable faster decisions and deeper geospatial insights, especially in remote locations with bandwidth limitations.

How RTK works with ArcGIS

1. Prep Data in ArcGIS
Select imagery and features, then export for LEIP’s advanced model training.

2. Tune on the Edge with LEIP
Analyze data in ArcGIS for easy training and model deployment. No data transfer through the cloud, ideal for remote locations.

3. Deploy to Edge Devices
Deploy trained models to sensors and drones for faster decisions and deeper geospatial insights.

4. On-Device Model Updates
Analyze results, make adjustments through a simple interface, and retrain & redeploy AI models on-device.