INTELLIGENCE PROCESSING AND ANALYSIS SYSTEM

AI AT THE EDGE | The deployment of low Size, Weight, and Power (SWaP) Artificial Intelligence (AI) models at the edge is pivotal to sustaining and enhancing military overmatch in modern operational environments. By enabling advanced data analysis, decision-making, and automation directly on platforms such as unmanned vehicles, Electronic Warfare (EW) systems, and soldier-worn devices, low-SWaP edge AI empowers forces to conduct real-time processing without reliance on vulnerable or bandwidth-constrained connectivity to a centralized cloud or remote servers.

PRECISE SYSTEMS' INTELLIGENCE PROCESSING AND ANALYSIS SYSTEM (**INT-PAS**) IS A MODULAR EDGE-DEPLOYMENT HOST THAT CAN BE CONFIGURED FOR SINGLE OR MULTIPLE AI MODELS AND CAN BE INTEGRATED WITH OUR PROPRIETARY INFERENCE ENGINE TECHNOLOGY FOR REAL-TIME SIGNAL ANALYSIS.

MODEL FLEXIBILITY

INT-PAS is model agnostic so it can deliver the optimum solution for the end-user's capability requirements. It can host one or multiple models and is not locked to any specific architecture, accommodating model choices that meet both performance considerations and customer preference.

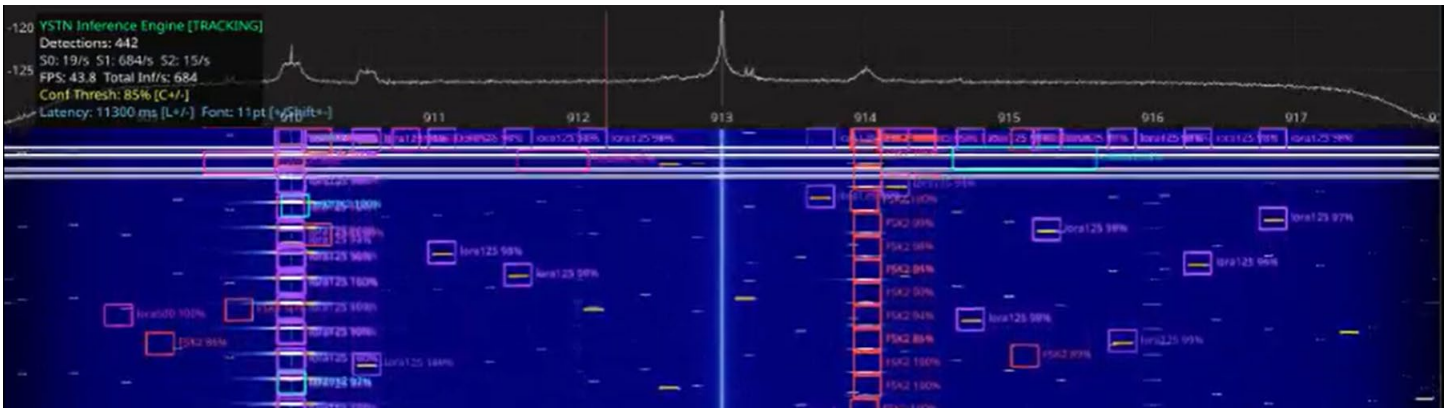

Figure 1: INT-PAS hosting Precise's Y-STN Nano RF Signal Classification model and live-inferencing with our headless inference engine. The results are sent to a display for visualization.

APPLICATION

INT-PAS has been designed to accommodate multi-modal intelligence analysis models. It can host multiple models within a single instance, and can be deployed to support complex agentic behavior to support cross-modal analysis. INT-PAS is a lightweight solution that can deliver a fundamental component to cognitive EW, ISTAR, and COMMS capabilities.

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