

ML/DL Applications for Clarifying Complex Signals

Powerful computing ability is required in signal process when an increase in the complexity of algorithms is encountered. So, hardware becomes the key component to improve the capability of the algorithm. The development of data processing technology based on edge computing makes it possible to improve computing power.

Aetina's partner unveils COTS products, which incorporates the Aetina MXM M3A2000-VY that conducts scalable, portable, and affordable GPU acceleration, and brings the extreme compute acceleration and ease-of-programming of MXM for modular test & measurement(T&W) and electronic warfare (EW). Due to 8.25 FP32 TFLOPS peak compute performance, M3A2000-VY strengthens the most demanding signal processing, machine learning (ML), and deep learning (DL) for AI-based signal classification and geolocation.

M3A2000-VY also supports programming via MATLAB™, Python and C/C++, enabling compute acceleration via NVIDIA CUDA® and OpenCL®, and making a convenient and flexible manner to improve accuracy and resolution bandwidths (RBWs) for enhanced signal processing.

Benefits

- Offers 8.25 TFLOPs intensive computing performance capabilities
- 5-year long-term supply
- Easy-to-program via MATLAB™, Python and C/C++

Results

- Users can conduct fast and accurate signal processing and analysis on acquired data
- Enhances extreme level of advanced graphics, DSP, and ML/DL
- Realizes cost-effective, easy-to-program, and high-performance compute acceleration for T&W and EW

