AI-Driven Secure Management Card
for NVIDIA MGX Platforms

Features

- Dimensions: 85.48mm (L) x 33.50mm (H)
- Industry's lowest power with best-in-class security solution
- Integrated ASIC with trusted computing, BMC, TPM, HRoT, NC-SI, AI/ML
- Best-in-class solution to protect AI/ML platform infrastructure.
- Encrypted memory for data and code protection
- Supports up to 4GB LPDDR4 and up to 16GB DDR4
- Incorporates Physically Unclonable Function (PUF), One-Time Programmable Memory (OTP)
- Quad ARM A53 application cores with 32KB L1 cache and 1MB L2
- Industry's only secure host connectivity with IDE-enabled PCIe
- Flexible platform ownership management throughout the product lifecycle
- Single/dual node support
- 4 independent Artificial Intelligence (AI)/Machine Learning (ML) islands running up to 4 TFLOPS
    - Protection against side-channel attacks
    - Hardware agent-based behavioral ransomware detection
    - Dynamic thermal management
    - Protection against insider attacks
- Baseboard Management Controller (BMC):
    - OpenBMC and AMI MegaRAC OneTree
    - MCTP over PCIe/I2C, SPDM/PLDM over MCTP via PCIe
    - SSIF, KVM, SOL, I2C/I3C, PWM, QSPI/eSPI/SPI, USB, UART, ADC
    - User, Alert, Policies, Certificate Management
    - Telemetry via Redfish interface

TECHNOLOGY

12 nm; 23x23 BGA package

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