Advanced AI Ruggedized Computer for Mobile and Stationary Operations.

OVERVIEW

When you need high-performing computing in harsh environments, Arcarithm's AI edge computing solution, GoDeep™-RG, delivers unparalleled performance. Engineered for sustained 24/7 performance, GoDeep-RG excels in harsh environments and offers unparalleled edge computing capabilities. In its fielded condition, GoDeep-RG seamlessly interfaces with an EOIR sensor, processing live video feeds. It autonomously detects and identifies targets of interest, efficiently transmitting critical information to the command and control system, enabling prompt operator action. In a unique application, the system has been successfully deployed, autonomously identifying and detecting aircraft. Explore the specifications below to discover the innovative features that make GoDeep-RG the ultimate choice for high-performance computing in dynamic and stationary harsh scenarios alike.

THERMAL MANAGEMENT

Thermal management is accomplished through a combination of conduction and forced convection. Conduction to the chassis fins occurs by use of heat spreaders and heat pipe assemblies attached to all significant sources of heat generating components. Five externally mounted 40mm fans remove the heat by pulling air through the fins and exhausting the air.

FEATURES

Motherboard	Supermicro X12SPM-LN6TF
CPU	Intel Xeon Gold 5317 Processor, 18M Cache, 3.00 GHz
GPU	NVIDIA Quadro RTXA5000 GPU
Memory	(4) 16GB DDR4-3200 ECC RDIMM MEMORY
TPM	(1) Trusted Platform Module 2.0
Capture Card	(1) Magewell 11530, Dual 3G-SDI M.2
PCIe Expansion	(1) PCIe x8, (1) PCIe x16
Video Output	(4) Display Port, (1) VGA
Video Input	(2) BNC Port
Ethernet	(2) 10GbE LAN, (4) 1 GbE LAN, (1) IPMI LAN
USB 2.0	(4) USB 2.0
USB 3.0	(4) USB 3.0

Serial I/O	(1) RS232
Storage	(1) 1TB 2.5" SATA SSD, (1) 512GB 2.5" SATA SSD
Operating System	Supports - Windows 10 64-bit, Linux 64-bit
Controls & Indicators	Power Button with Built-In Green LED
Input Power	Single Wide Input Range +20V to +33V DC (28VDC Nominal)
Power Consumption	750W Max
Temperature	Operating Range: -40C to +55C Storage Range: -40C to +85C
Environmental Standards	Designed to Meet Certain Specifications of the Following: MIL-STD-810H Shock and Vibration, Sand and Dust/Rain, Humidity, Altitude MIL-STD-461G EMI/EMC MIL-STD-1275E/704F Power DO-160G IP66