EMPOWERING DEFENCE AND AEROSPACE WITH INDIGENOUS

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...Transformational Technologies

MAKE IN INDIA

RUGGED SMALL FORM FACTOR EMBEDDED COMPUTERS

RAPTOR
VNX+ (VITA 90) Rugged Small Form Factor

- CPU: Multicore Intel Architecture (i7, Atom).
- OS: Linux, Windows
- Other Processors: NVIDIA Xavier/Orin GPU/GPGPU, FPGA, MPSoC + ARM® (Consult Factory for Specific Details).
- Storage: Fixed, Removable, Remote Options Available.

FALCON II
Configurable SFF Embedded Computer

- Dimensions (±1mm): 217mm x 260mm x 105mm
- Weight: ≤ 4.5 to 4.9 Kgs. (Configuration Dependent)
- Memory: up to 64 GB DDR4 / DDR5 RAM
- Storage: up to 1980GB with M.2 Interface

LANIUS II
Configurable Mini SFF Embedded Computer

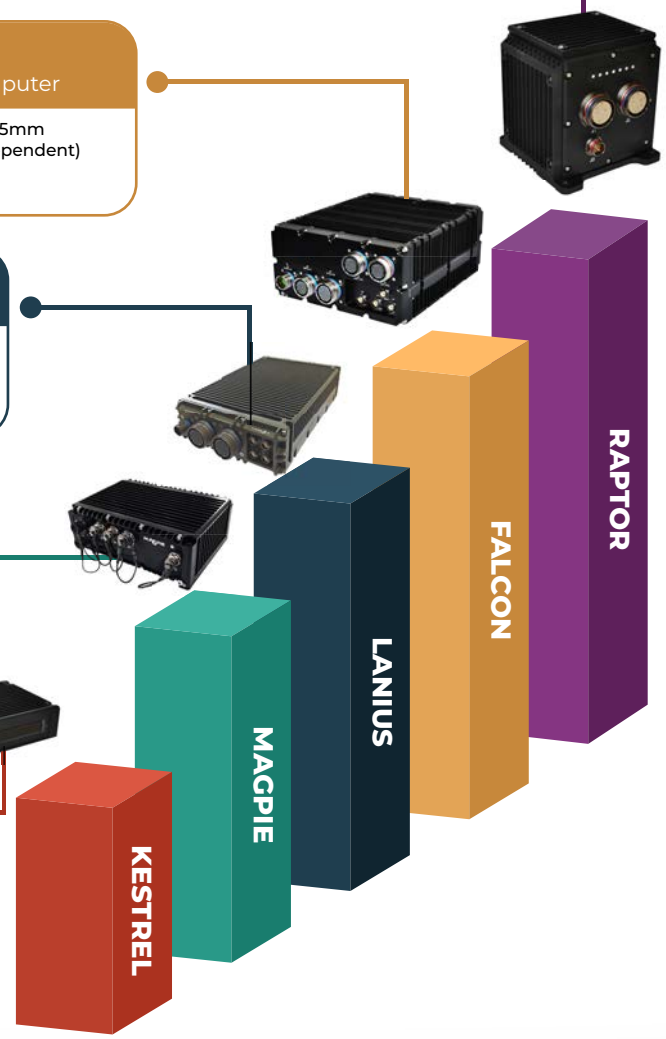
- Dimensions(±1mm): 162 x 260 x 65 in mm (base unit)
- Weight: ≤ 2.5 Kgs. (Configuration Dependent)
- Memory: up to 64 GB DDR4 / DDR5 RAM
- Storage: up to 1980GB with M.2 Interface

MAGPIE – I
Configurable Micro SFF Embedded Computer

- Dimensions: 150mm x 110mm x 54mm;
- Weight: <0.8 Kg (Base Model)
- Power: 28 VDC @ 15-20 Watts (Configuration dependent without expansion boards)
- Memory: Upto 16 GB LPDDR4
- Storage: 128GB to 512GB (MLC / SLC)

KESTREL
Standard-based Nano Computers

- CPU: Intel ATOM, NXP ARM or Latest
- RF: Wi-Fi, Bluetooth, Cellular, GPS
- Signal I/O: Analog, Discrete, IRIG B, IMU
- Standard I/O: GigE, USB 2 / 3, Serial. Audio, GPIO



VNX+ MODULES

VNX+ SBC
Core i7 or ATOM Based VNX+ SBC

- CPU: Intel i7 to Atom Processor: 1
- Cores / Threads: 2 / 4
- RAM, DDR4-2133, Non-ECC: 8 GB
- FLASH, eMMC : 64 GB

VNX+ GPGPU
VNX / VNX+ Conduction Cooled GPGPU

- GPU: Jetson Xavier NX
- Nvidia Volta GPU with 384-CUDA Cores48 Tensor Cores
- CPU: 6-core NVIDIA Carmel ARM®v8.2 64-bit CPU
- Memory: 16 GB 128-bit LPDDR4x

VNX+ IO Carrier
Model R32 - Conduction Cooled

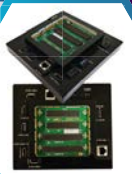
- Standard PCIe interface upstream
- Two mPCIe / Acropack communication interface downstream
- Two USB 2.0 communication interface
- One SM BUS interface

VNX+ Switch Test Jig
VNX+ Conduction Cooled Test Jig

- 1GbE: 20
- 10G SFP ports: 2
- 120GB MLC SATAIII: 2 SATA Connectors
- NAND Flash: SATA SSDs are on Raptor

HELIOS VNX
Model HRx – VNX+ Conduction Cooled PSU

- Line & Load Regulation: Less Than 1%
- Ripple & Noise: Less Than 75 mV
- Output Power Max : 90 Watts (Limited by Cooling)
- Efficiency: 85% to 90%



VNX+ Lab Test Unit
Lab Test Jig for VNX+ SBC & GPU Module

- VNX+ Intel® i7 SBC & VNX+ nVidia® Jetson GPU
- VNX+ PSU (HR2) & VNX+ Filter (HT2)
- HDMI, USB2.0, USB3.0, Ethernet, 2x PCie (x1)
- DP, USB 2.0, Ethernet

HELIOS FILTER
Helios Series VNX+ EMI & Transient Filter

- Interface Connector: 320Pin Searay Connector
- Voltage Range: 12VDC to +36VDC (+28VDC Nominal)
- Protection: Reverse, Transient & Over voltage
- VITA Standard: VITA 90.3 (Draft)

NETSPYDER – VX
VNX+ Ethernet Switch

- 8 x GbE Ports (MDIO) on VNX SwitchModule
- 3 x QSGMII Ports for 8 or 12-Port Expansion via
- optional expansion module 2 x 10GbE Ports
  - 2 x SFI Drive with 400-Pin with Zero-Aperture
  - 2 x MT Optical Interfaces with 320-Pin and Half-Aperture
- 1 x RS232 Console

OPTIMIZED SFF EMBEDDED COMPUTERS

WILLET - I
SFF System with Intel CPU + Nvidia GPU

- Dimensions: 225x217x120 in mm (without removable drives)
- CPU:
  - Intel Xeon W-11865MRE (8C / 16T)
  - Core i7-13800HRE (6P+8E/20T)
- Graphics: NVIDIA A2000/P2000 Graphics
  - Graphics Video (Standard): 1xDP Video Output
  - Graphics Video (Build Option): 2x DP Video Output
- Weight: < 5 Kg.

EIDER
Rugged High-Performance NAS Powered By INTEL

- I/O 2 x 1 Gigabit Ethernet
- 2 x 10G Ethernet
- Support for NVME/SATA 3 Drives

NETWORKING & COMMUNICATIONS

Netspyder DA
Ultra-Small Managed layer 2/3 SFF Ethernet Switch

- Dimensions: 124 x 87 x 160 in mm (W x H x D)
- Weight: < 2.2 kgs
- Voltage: 28 VDC Nominal (18-32 VDC)
- Power: 30-Watt typ (configuration dependent)

Netspyder CA
Ultra-Small Ethernet Switch

- Dimensions: 124 x 86 x 204 in mm (WxHxD)
- Weight: < 2.2 kgs
- Power: 35-Watt (200-Watt typ with POE
- configuration dependent)

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About Us

Since our inception in 2000, Trident Infosol has been one of the few Indian private-sector companies to significantly supply hardware and software solutions to the Indian military and defense sector and has grown to be an eminent system engineering and product design company focused in the embedded domain.

Our Certifications

AS9100D | CEMILAC - Design | NABL Certification