The Willet-N is a rugged ultra-SFF GPGPU AI SWaP Optimized Supercomputer, specially tailored for the avionic, military and rugged industrial market. It incorporates the powerful NVIDIA® Jetson AGX Xavier-based AI SOM that provides 512 CUDA cores and 64 Tensor cores, reaching 32 TOPS (INT8) and 11 TFLOPS (FP16) at a remarkable level of energy efficiency.
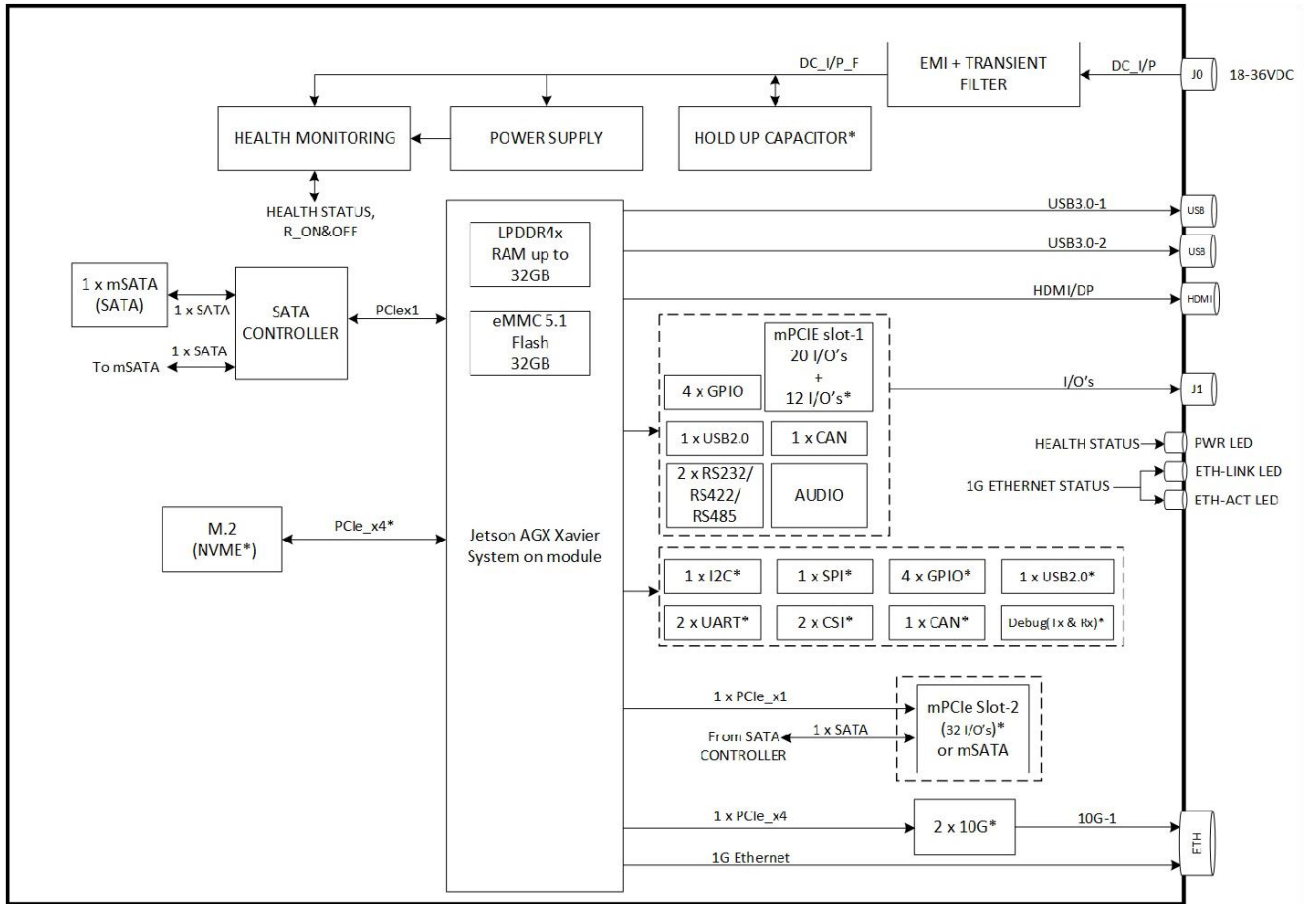
Weighing less than 5 lb. and measuring only 6.06" x 2.99" x 9.05", the rugged Willet-N is ideal for artificial intelligence environments in military and defense applications that require very high levels of computation, such as distributed computing and signal processing in next generation autonomous vehicles as well as surveillance, targeting and EW systems.
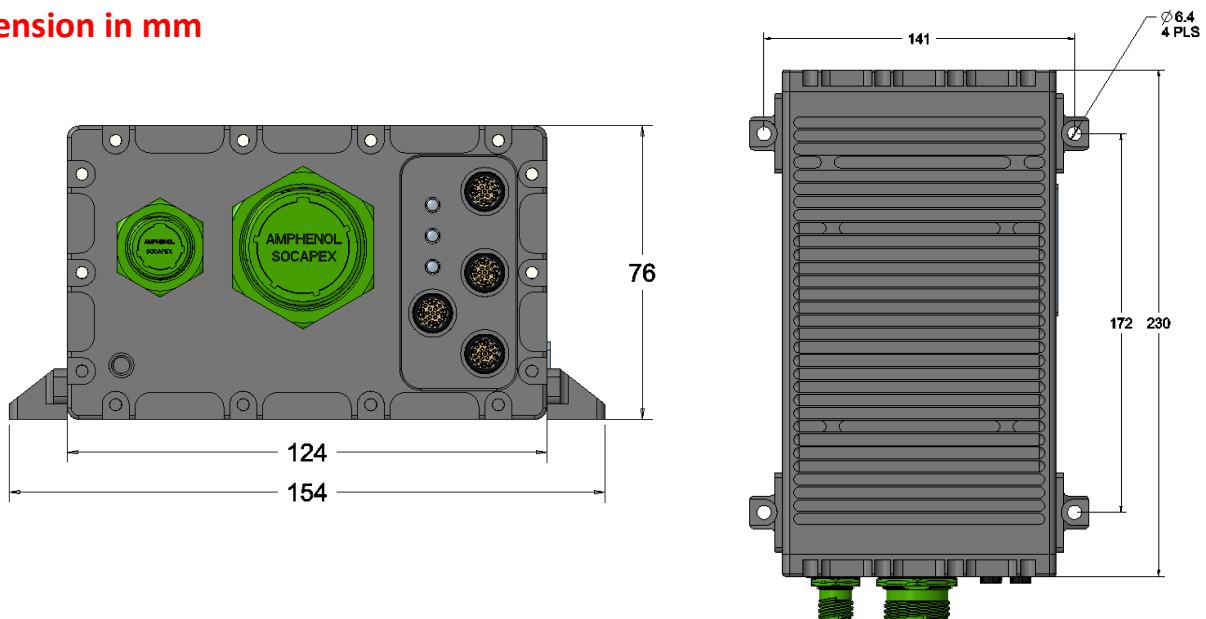
FEATURES

- **CPU:** 8-Core Carmel ARM 64-Bit CPU, 8 MB L2 + 4 MB L3
- **Graphics:** NVIDIA Volta™ architecture with 512 NVIDIA CUDA cores and 64 Tensor cores or 384-Core NVIDIA Volta™ GPU with Tensor Cores
- **Memory:** 8GB/16GB/32 GB LPDDR4x
- **Storage:**
  - ✓ 32 GB eMMC 5.1
  - ✓ Up to 512GB SSD (using mSATA Expansion site)
- **Video O/P:** DP1.2/HDMI 2.0
- **I/O's:**
  - ✓ 2xRS232/2xRS422(Software selection)
  - ✓ 2XUSB 3.0, 1xUSB 2.0
  - ✓ 1xCAN
  - ✓ 1x HD Audio
  - ✓ 1x1 Gig Ethernet, 1x10 Gig Ethernet
  - ✓ 1x HDMI 2.0/Dp 1.2
  - ✓ 4xGPIO
  - ✓ 20xmPCIE I/O's
- **I/O's (Build Options):**
  - ✓ 1x10 Gig Ethernet
  - ✓ 4xGPIO
  - ✓ Debug (Tx & Rx)
  - ✓ 2x CSI (Dual Lane)
  - ✓ 1xUSB 2.0, 1xCAN, 1xSPI, 2xUART, 1xI2C
  - ✓ 44xmPCIE I/O's
- **Expansion Sites:** 1x mSATA/1xM.2 NVMe slot KEY M, 2x mPCIe/1xmSATA & 1xmPCIe .
- **Dimensions:** 154mmx76mmx230mm
- **Weight:** < 2.5kg
- **Voltage:** 28 VDC Nominal (18-32 VDC)
- **Power:** 20W-35W (*Conditions apply)
- **Operating Temp:** -25°C to +65 °C
- **Environmental**: MIL- STD-810H
- **EMI:** MIL-STD-461G
- **Power**: MIL-STD-704F/MIL-STD-1275E
- **Operating System:** NVIDIA Linux for Tegra (L4T) based on Ubuntu

*<u>**Note:**</u> Build Options are the additional interfaces other than the standard interfaces, these build option interfaces are not routed to connectors and available as build option.

Dimension in mm