DMS-SA60

nVIDIA Jetson NX/Nano
Military SFF System

Features:

nVIDIA Jetson NX/Nano Platform:

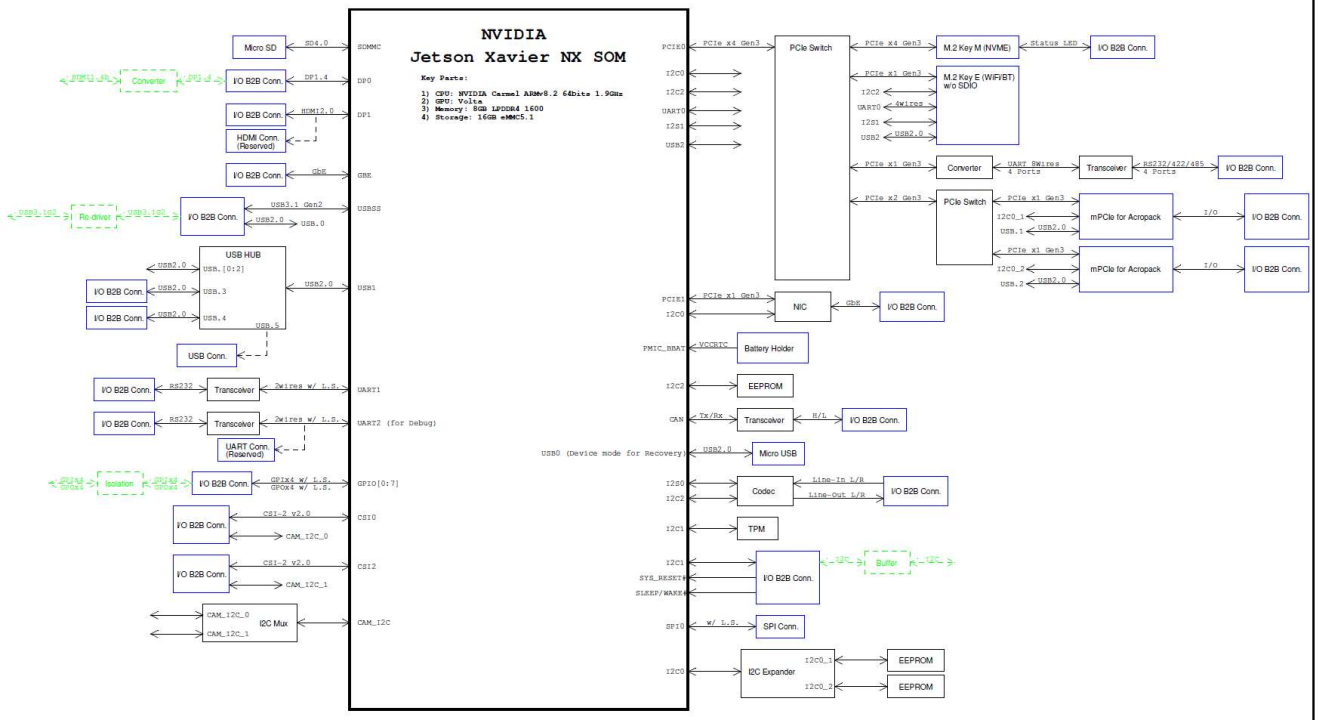
- Support AI Application
- Reserve 2 slot min-PCIe and/or Acropack & 2x M.2 slots
- Ready to Comply with different Military Standard:
  MIL-STD-1275E, MIL-STD-704F, MIL-STD- 461G,
  MIL-STD-810G, DO-160
- Comply with VITA75.20
- Fan-less Design
- Support Wide Range Power Input (12V ~ 40V DC)
- Modularization Design to expansion for different applications

Specification

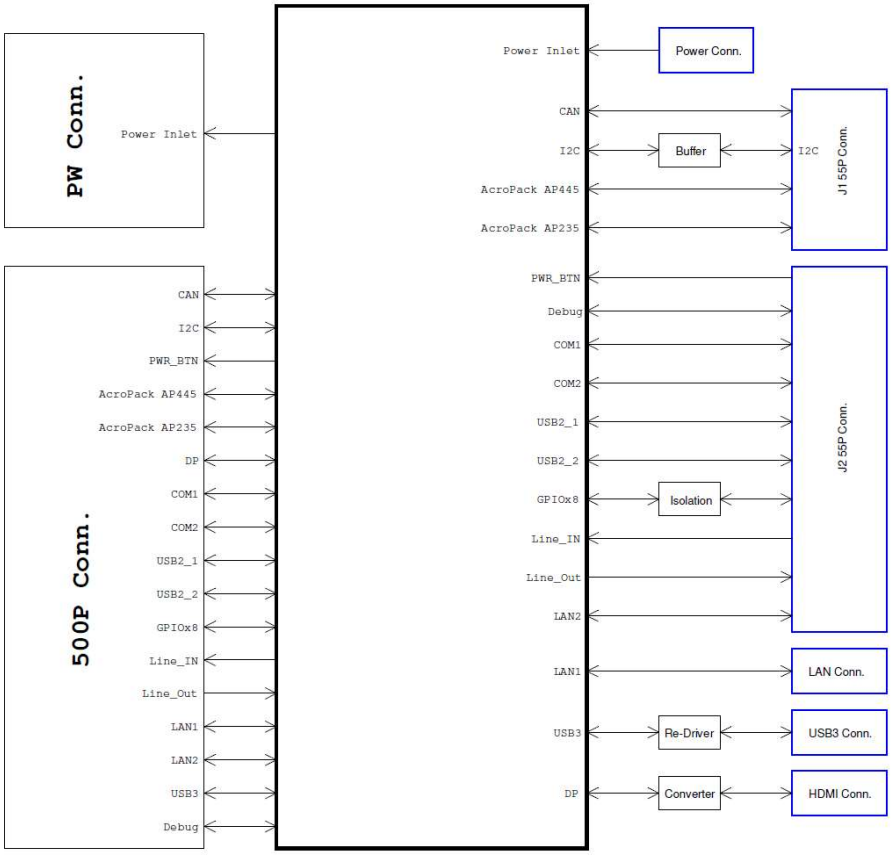
DMS-SA60 SFF System Specification			
nVIDIA Jetson Module	Processor	nVIDIA Jetson	NX (384-core NVIDIA Volta™ GPU, 21 TOPS (Max)) Nano (128 Core Maxwell, 0.5 TFLOPs (FP16))
	OS		Linux Ubuntu 18.04
	Memory	LPDDR4	8GB (Nano: 4GB LPDDR4)
	Storage	eMMC	16GB
External Front Panel Output	Network	LAN	x2 (10/100/1000) (Nano: LAN 10/100/1000 x1)
	USB	2	x2
	USB	3.1 (Gen 2)	x1 (Nano: Gen1)
	Display	HDMI	x1
	GPIO		x8
	Serial	RS-232	x1 (2 wires for debug)
		RS-232/422/485	x2
	Others	I2C	x1
		Power Button	x1
		CAN bus	x1 (Nano: w/o CAN bus)
		Audio Line-in/out	x1
		TPM	2
		Acropack Output	x1 set Analog Output
			x1 set Digital Output
	Power	Power Adapter	+12Vdc to +40Vdc continuous (+50Vdc transient), MIL-STD-1275E/704F, Typical 28V
		RTC Battery	x1
Expansion	I/O Slot	mini-PCIe	x2 (For Acropack Module)
		M.2	x2 (Key E & Key M)
		MicroSD	x1
System Outline	Mechanical	Dimensions (W x L x H)	203mm * 203mm * 97mm (Meet VITA75.20)
Environment	Operating Temp.		-25 ~ +70° C
Military Standard (Ready To)	Environment		MIL-STD-810G, DO-160
	EMC/Safety		MIL-STD-461G
	Power		MIL-STD-1275E, MIL-STD-704F

Block Diagram

Main Board:



I/O Board:



Ordering Information

Part Number	Description
DMS-SA60-00A1	nVIDIA Jetson NX SFF System
DMS-SA60-00A2	nVIDIA Jetson Nano SFF System

Optional Accessories

Part Number	Description
DMS-SA60-CAB	nVIDIA Jetson Carrier Board Only (w/o nVIDIA Jetson NX or Nano module)
DMS-SA60-PWB	DMS-SA60 Power Board
	DMS-SA60 Chassis