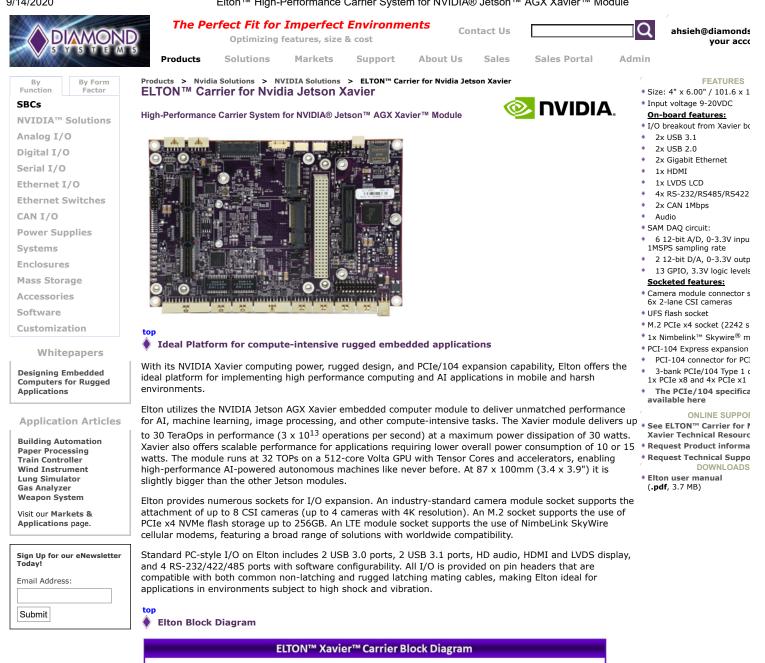
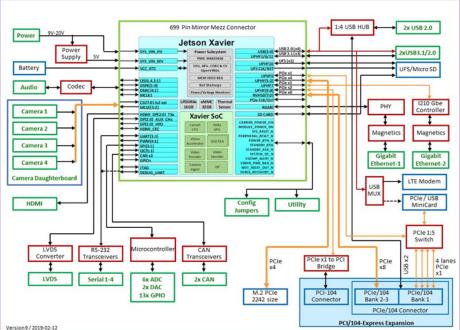
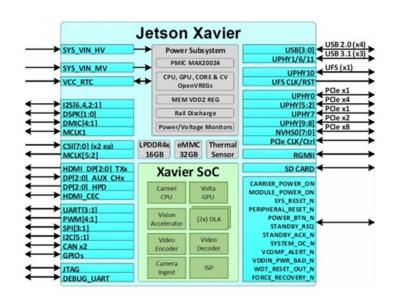
9/14/2020

Elton™ High-Performance Carrier System for NVIDIA® Jetson™ AGX Xavier™ Module



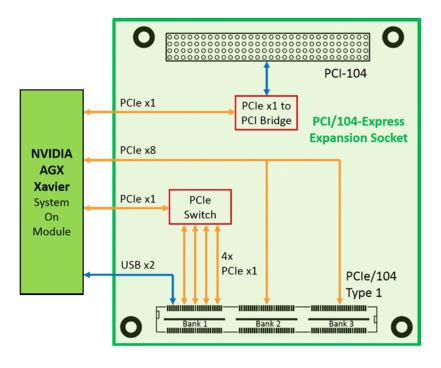


Jetson Xaviar Block Diagram



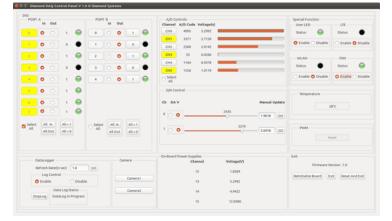
top NVIDIA Meets PC/104

Unique among NVIDIA computing module carriers, Elton employs a PCI/104-Express expansion socket. The socket provides support for PCI-104, PCIe/104 type 2 (x8 lane), and PCIe/104 OneBank expansion modules (4 x1 lanes), enabling rapid creation of truly rugged, custom-configured, high performance, PCIe-based solutions using off-the-shelf I/O modules from a large number of manufacturers worldwide. Typical PCIe/104 I/O expansion includes 1G/10G Ethernet, video capture, and high resolution video display. A wide variety of industrial I/O modules, including analog, digital, serial, motion control, and other types is also available.



top Data Acquisition

A built-in data acquisition circuit provides 12-bit A/D up to 1MSPS, 12-bit D/A, and 3.3V GPIO. Diamond's free C-language programming library simplifies application development, while a GUI control panel offers convenient control and monitoring of real-world processes as well as ready-to-run data logging capability.



top Unique and Rugged

Unique among NVIDIA module carriers, Elton offers a full PCI/104-Express expansion socket with PCIe x8, PCIe x1, and PCI expansion capabilities in a solution designed for vehicle and harsh environment applications. Elton bridges the world of NVIDIA high performance computing and graphics capabilities and the world of PC/104 rugged systems. Elton is the first product to bring NVIDIA into the PC/104 ecosystem and helps to prove the enduring value of PC/104 as the PCIe expansion system of choice for small form factor, high performance, rugged embedded computer systems.







Elton carrier board

Elton carrier board with heat spreader, and no PC-104 connector bank

Elton carrier board bottom with tabs for securing to enclosure

Cable kit for Elton Jetson Xavier carrier board, Latching board connectors



CK-ELTON-01 includes the following cables:

No.	Qty	Cable	Description	Drawing
1	1	6981507	Power Cable, IPD $2x2$ to Leads, $20AV$	Show
2	1	6980524	Cable, External Battery, Molex Spox	Show
3	1	6980601	Dual serial, latching, 2x DB9M	Show
4	1	6980602	Cable, Dual USB 2.0, FCI 98414 to D	Show
5	1	6980603	Cable, USB 3.0, Latching, FCI 98414	Show
6	1	6980604	Cable, RJ-45 socket, panel mount	Show
7	1	6980605	HDMI Cable	Show
8	1	6980606	DAQ Cable	Show
9	1	6980608	Audio cable 2mm to 3x3.5mm	Show
10	1	6981182	CANbus 2.0 dual port cable	Show

Elton™ High-Performance Carrier System for NVIDIA® Jetson™ AGX Xavier™ Module

ELTON™ Carrier for Nvidia Jetson Xavier					
	available models:	quantity:			
ELT-BB01	Elton carrier board for Jetson AGX Xavier computer on module with PCIe/104 expansion	0			
ELT-BB02	Elton carrier board for Jetson AGX Xavier computer on module with $PCIe/104 + PCI-104$ expansion	0			
ELT-BB03	Elton carrier board for Jetson AGX Xavier computer on module, no $\ensuremath{PCI-104}$ / $\ensuremath{PCI-104}$ expansion	0			
ACC-HSELT-01	Heat spreader for Elton carrier board	0			
	view your online quote	add to quote			

Cables and accessories available models: quantity: CK-ELTON-01 Cable kit, Elton Latching type 0 Power Cable, IPD 2x2 to Leads, 20AV 6981507 0 6980524 0 Cable, External Battery, Molex Spox 6980601 Dual serial, latching, 2x DB9M 0 6980602 Cable, Dual USB 2.0, FCI 98414 to D 0 6980603 0 Cable, USB 3.0, Latching, FCI 98414 6980604 Cable, RJ-45 socket, panel mount 0 6980605 HDMI Cable 0 6980606 0 DAQ Cable 0 6980608 Audio cable 2mm to 3x3.5mm 6981182 0 CANbus 2.0 dual port cable view your online quote add to quote

Get an online quote

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