

EVIDEN

BullSequana eXascale Interconnect (BXI) V3: High-performance interconnect for AI and HPC workloads

With the rapid rise of HPC and AI workloads and the advent of Exascale, interconnect networks are under immense pressure. At this scale, optimizing the network - the backbone of the system - becomes crucial to enhancing overall performance.



The Eviden BullSequana eXascale Interconnect (BXI) V3 offers a game-changing solution by offloading tasks from GPUs and efficiently managing traffic, enhancing GPU utilization and supercomputer system performance.

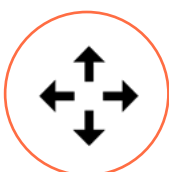
As Europe's leading interconnect player and a founding member of the UltraEthernet Consortium (UEC), Eviden provides an open-standard, sovereign solution tailored for AI and HPC workloads.



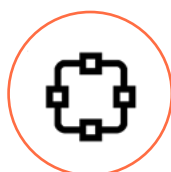
High
bandwidth



Ultra Low
latency



Congestion
management




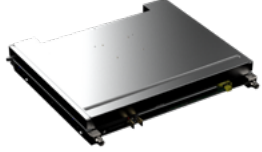
Ensure packet
delivery & order


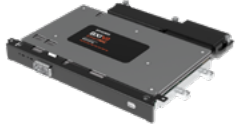


Ethernet
interoperability



Smart GPU
offloading

SWITCH			
		BXI V3 AIR SWITCH	BXI V3 100% DLC XH3000
Technology	Specs	800G max Switch to Switch , Up To 2x400G for Switch To Nic	
Ports	Capacity Type Max aggregate throughput	64X OSFP 800G 51,2Tb/s	
Power supply	Input voltage Reduncy Hot Plug (Yes or No)	C19 120V/240V AC Yes Dual PSU in-chassis Yes	55VC DC Bus bar Reduncy YES , common rack PSU infrastructure
Operating conditions	Temperature range Non-operating/storage Humidity range Storage humidity	0°F to 35°F derating of 1°F/325feet above 900feet -40°F to 70°F 8% to 80% 5% to 95%	
Cooling	Type	Yes fan with redundancy	Dripless Connector Quick DisConnect Coupling) 100% DirectLiquidCooled (Fanless)
Mechanical	Infrastructure Compatibility	19" rack within 2U chassis	BullSequana XH3000 Rack 2U 20.12" x 10.61" x 3.5"
Management	Interfaces LED indicators	Out of band Management via 1x RJ45 1Gbe connector Per port: link status System LEDs: System, fans, power supplies Unit ID LED	via rack infrastructure SideBand network Restore To default by SideBand Power LED Unit ID LED Link Status
Cable		Copper and/or Optical	
Warranty		Standard warranty: 1 year Extended Warranty: consult your local Sales representative	
safety compliance		Safety compliance CE, and cCSAus , BIS, UKCA	
emc compliance		MC compliance CE, FCC	
Environmental		Environmental RoHS II & WEEE directives, REACH regulation	

NIC = network interface card		 BXI v3 NIC PCIe card	 BXI V3 NIC Mezzanine Card
System Interface		PCI Express Gen 5.0 x16	
Ports	Connector Max Data Rate	QSFP-DD 400 Gbps	QSFP-DD 2x 400 Gbps
Software	Operating System	Red Hat Enterprise Linux 9.x	
Power Supply	Input voltage	12VDC + 3,3DVC	12VDC + 3,3DVC
Operating conditions	Temperature range Non-operating/storage temperature Humidity range Storage humidity Thermal Solution	5°C to 38°C -40°C to 70°C 20% 60%, gradient 5%/h 20% 60%, gradient 5%/h Active Heat sink	10°C to 45°C -10°C to 70°C 8% to 80% non-condensing 5% to 95% non-condensing Water-cooled cold plate
Cooling		100% Aircooled	100 % DirectLiquidCooled
Form Factor	Card format	FHHL	Dual OCP3.0
Server compatibility		Standard Server	BullSequana XH3000 Compute Blade
MTU size		9000 Bytes, 64GBytes max message size	
Management LED Indicators		Link status indicator (Green) Traffic indicator (Yellow blinking)	Link status indicator (Green) Traffic indicator (Yellow blinking)
Cables		Passive/Active copper & fiber	Passive/Active copper
Safety compliance		CE, cCSAus , BIS, UKCA	
EMC compliance		CE, FCC	
Environmental		RoHS II & WEEE directives, REACH regulation	
Warranty		Standard warranty: 1 year Extended Warranty: consult your local Sales representative	

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