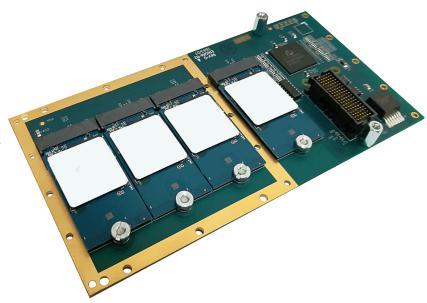
9303 / 9304 ccXMC-PCleStor



DESCRIPTION

The Model 9303/04 is a VITA 42 air or conduction cooled extended temperature XMC adapter card with four M.2 SSD sites for high speed, multi-terabyte storage. Each M.2 site supports one lane of PCle Gen 2 connectivity at 5 Gb/s per lane when a Gen 2 or 3 capable M.2 PCle host card is used. An onboard Gen2 PCl Express (PCle) switch connects one 4-lane upstream PCle port to four 1-lane downstream ports. Each site supports a 1-lane PCle Gen 2 connection which works with 1-lane, 2-lane or 4-lane M.2 cards.

The product is supplied as a complete, tested and integrated assembly including pre-installed M.2 drives. The 9303/04 supports all currently available drive capacities and the M.2 sites support standard and widely used 30mm or 42mm long by x 22mm wide M.2 drives.



Because M.2 cards can dissipate considerable power, the 9303/04 couples the M.2 to surface power planes, which then thermally couple to the VITA 20 conduction-cooling features. An XMC front panel is installed on the air cooled version (9303). The front panel kit may also be purchased separately.

FEATURES

- Conduction-Cooled -45°C to +85°C operating temperature
- Multi-terabyte storage capacity across four M.2 PCle sites
- Accommodates 30 & 42mm M.2 cards (42mm pre-installed hardware)
- Optional hardware kit for mounting shorter M.2 drives
- > Optional adapter kit for air-cooling available
- > Onboard PCle Gen 2 switch
- > 1 Gen 2 x 4 upstream lane
- > 1 Gen 2 x 1 downstream lane per site

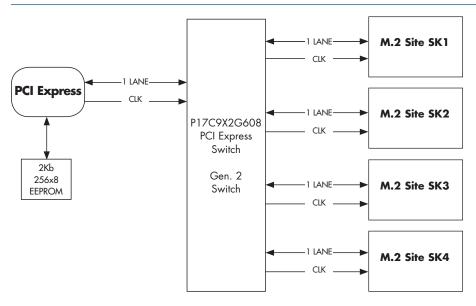
BENEFITS

- Mezzanine modularity enables economical storage capacity upgrades
- High speed performance mitigates system data rate bottle necks
- High capacity storage with zero slot usage
- Elma's assembly level configuration control ensures seamless support
- Let Elma's system experts perform your 9303/04 and host card OS integration

9303 / 9304 ccXMC-PCleStor



DIAGRAM



SPECIFICATIONS

Temperature	Operating Non-Operating	-45C to 85°C media dependent -55 to +105°C (board only - not media)	
Relative Humidity	Operating	5% to 95% non-condensing	
Vibration (Sine)	Operating	5G (10 to 2000 Hz)	
Shock	Operating	20G (11 ms)	
Altitude	Operating	Typical similar equipment is at 15,000 ft.	
General	The 9303/04 ccXMC-PCleStor conforms to the VITA 42.3 standard for serial attached mezzanine cards. It is intended for use on host cards which support an XMC host site.		
Input / Output	Four lane PCI Express Gen2 (5 Gb/s) to 4 one lane PCI Express Gen 2 M.2 drive sites.		
Physical	Weight: 2.01 oz (59g), approx. 2.8 oz (80g) including four SSD Dimensions: H .39" (10mm), W 5.2" (74mm), L 2.9" (132.2mm with front panel)		
Power Requirements	Power (No SSD) Power (4 x SSD at idle*) Power (4 x SSD at use*) *SSD dependent	+3.3V +5%, -2% @ 0.4A +3.3V +5%, -2% @ 1.3A +3.3V +5%, -2% @ 1.9A	

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APPLICATIONS

- > High capacity storage requirements for a wide range of defense applications including ground, shipboard and airborne systems
 - > Signal intelligence data storage
 - > Engine control systems data
 - Mission data storage
- > Rugged industrial and defense storage supporting systems requiring resistance to high temperature and high shock and vibration. Equipment and process monitoring data storage

RELATED PRODUCTS

APPIIPAK



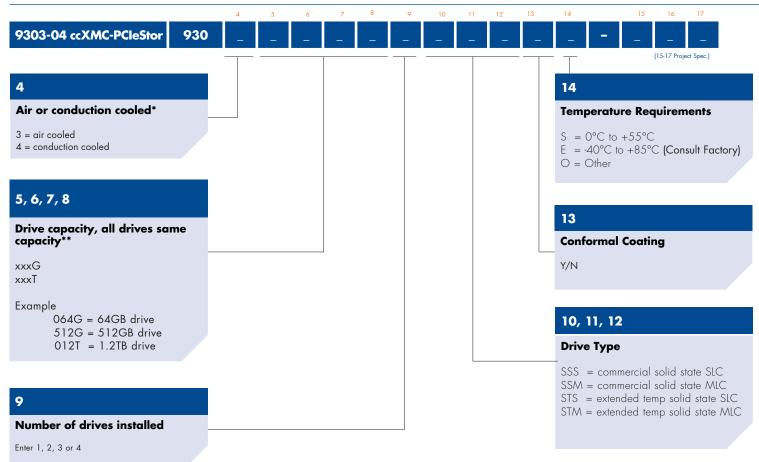
Combine your 9303/04 or any of Elma's line of mezzanine storage products with your choice of our partner VPX, VME, cPCI and cPCI Serial single board computers, operating systems and device drivers for a fully integrated and tested assembly sold and supported by Elma under one model number with a single point of contact.

EXAMPLE ORDER NUMBER		PART NUMBER
Model 9303	Model 9303 with four 512GB MLC SSDs and conformal coating.	9303512G4SSMYS

9303 / 9304 ccXMC-PCleStor



ORDERING INFORMATION



 $^{^{\}star}\mathrm{Air}$ cooled requires the addition of front panel model 9303-FRPNL

ACCESSORIES

Description	Model Number
Optional hardware kit for mounting a single 30, 42, or 60 mm M.2 card	9303-MOUNT-HW
Front panel kit for use in air cooled applications. Included and mounted when the 9303 air cooled version is ordered.	9303-FRPNL

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Please contact our sales team for more details.

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^{**}Consult Elma for the complete range of available drive capacities.

The model description on all quotes must include any other specific drive attributes necessary to fulfilling the application requirement