

Description

The 9292 XMCDisk is an XMC mezzanine storage solution designed for high capacity and high speed data access as well as system boot operations. It supports 2.5" SATA drives and leverages the latest available solid state and rotating drive technology. For applications requiring the rugged and durable capabilities of solid state drives, the 9292 supports SLC, MLC or eMLC drive types.

The board contains a Silicon Image 3132 SATA II controller with a 2.5 Gb/sec PCIe Gen 1 interface that can provide high data transfer rates. The 9292 is built to withstand harsh environments requiring high shock, vibration and extended temperature tolerance.

Features

- Choose the latest in solid state drive technology; SLC, MLC or eMLC
- Standard, enhanced or extended duty drive options
- Supports currently available 2.5" drive capacities
- Data rates up to 134MB/sec write and 141MB/sec read
- Silicon Image 3132 PCIe to SATA II controller
- The 9292 can be used as a boot device
- Driver support for VxWorks 5 and 6.6 and above (Freescale), version 6.6 and above (Intel), Linux and Windows operating systems
- Available in extended temperature, shock and vibration version

Benefits

- High data rates for current application needs
- Gain the highest available storage capacity without consuming a card slot
- Easy capacity and technology upgrades as your storage needs change
- Robust design for harsh environments
- Elma's device driver support eases your integration concerns

Applications and Related Products

- 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

Example Order Number: 9292512G00STSVYE

XMCDisk with a 512GB extended temp solid state SLC drive with conformal coating for -40C to 85C operating temperatures.

Single board computer + XMCDISK + Integrated operating system driver support and optional ruggedization

AppliPak

Combine your XMCStor or any of Elma's line of mezzanine storage products with your choice of our partner VPX, VME and cPCI 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.

XMC

XMC Disk

High capacity mezzanine storage

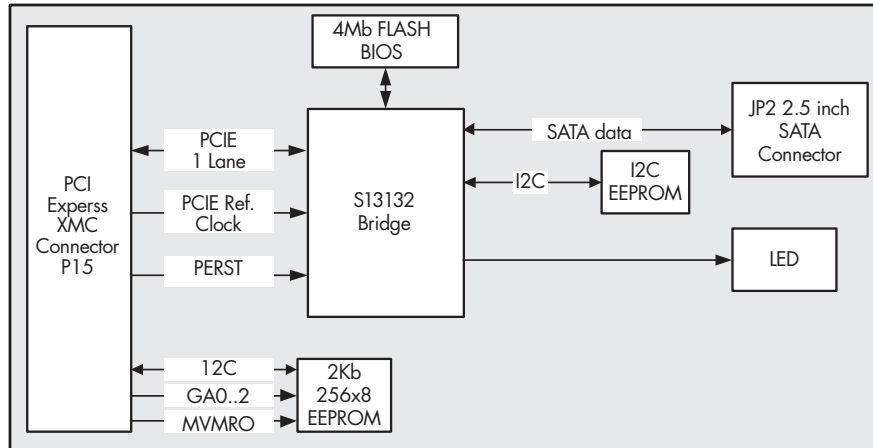


Storage



VITA

Block Diagram and Environmentals



Environmental

Standard Operating Temp:	0°C to 55°C
Extended Operating Temp:	-40°C to 85°C (optional)
Non-operating:	-40°C to 85°C
Operating Shock:	HDD 400G 2ms SSD 40G 11ms
Operating Vibration:	HDD - 1G (5-500Hz) SSD 5G (10 - 2000 HZ)

All configurations of the 9292 are RoHS compliant.

Shock and vibration values are media dependent.

General

The 9292 is a single width XMC module (74mm x 149mm) compatible with the VITA 42.3 mezzanine module standard. Each configuration has an onboard Silicon Image PCIe x 1 to dual port SATA II controller.

Input / Output

When attached to a host Single Board Computer (SBC), the 9292 provides access to one 2.5" SATA storage drive from the host PCIe bus via the P15 XMC connector.

Compatibility

The 9292 is directly compatible with VITA and PICMG SBCs, and any carrier cards with XMC sites.

Power Requirements

Required Input Power: +5V @1A
+3.3V @ TBD
+12V @ TBD

Order Information

9292

2.5" Drive capacity*

xxxG
xxxT
Example
064G = 64GB drive
500G = 500GB drive
012T = 1.2TB drive

Device driver

V = VxWorks
W = Windows
L = Linux
O = Other

Drive RPM

54
72
00 (solid state drive)

Conformal Coating

Y / N

2.5" Drive Type

RSD= standard duty rotating
RED= enhanced duty rotating
RXD= extended duty rotating
SSS= commercial solid state SLC
SSM= commercial solid state MLC
SSE= commercial solid state eMLC
STS=extended temp solid state SLC
STM=extended temp solid state MLC
STE=extended temp solid state eMLC

Temperature Requirements

S = 0°C to +55°C
E = -40C to +85
O = Other