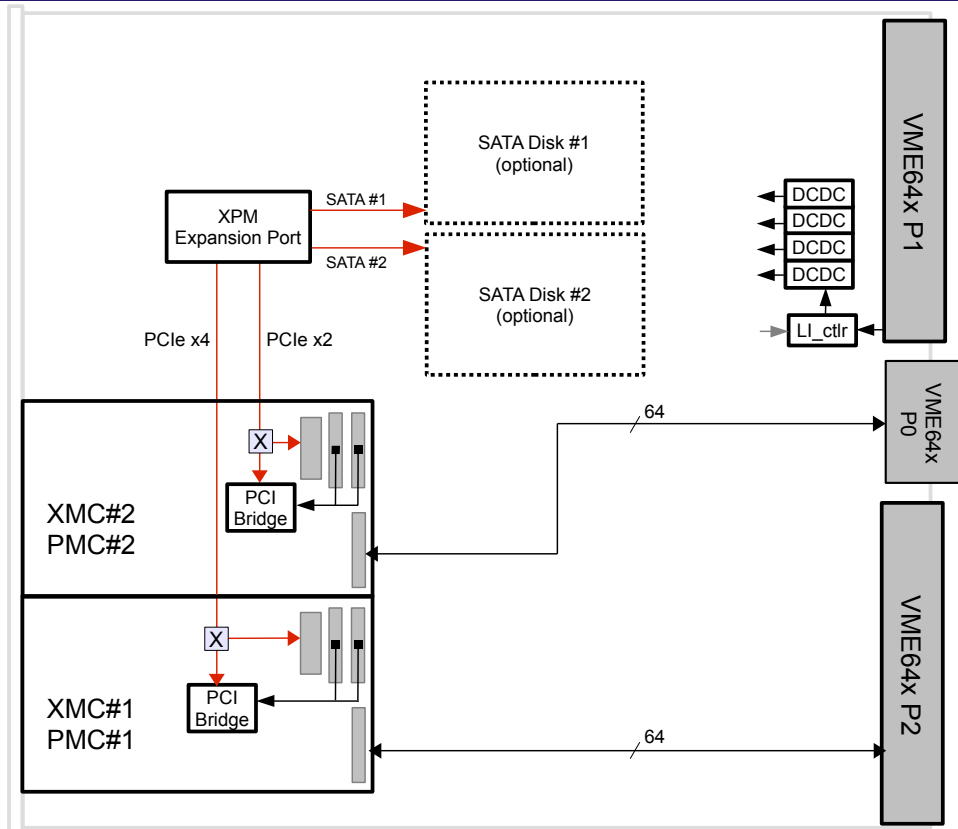


XPM_1262 VME64x Expansion Carrier VME64x Dual PMC/XMC Expansion Carrier

Data Sheet



Key Features

- 6U VME64x Expansion Carrier providing additional:
 - ✓ Two XMC/PMC slots
 - ✓ Two SATA HDD/SDD storage devices (must be purchased separately) in 2.5" or Half-Slim form factors
- Compatible with following IOxOS Technologies COTS:
 - ✓ VDC_7920 VME64x Dual Carrier
 - ✓ PEV_7912 PCIe to VME64x Bridge
 - ✓ IFC_1211 VME64x Single Board Computer with Xilinx UltraScale
- VITA 35 compliance (PMC/XMC Jn14/Jn24 mapping to VME P2) supporting following connection configurations:
 - ✓ P4V0-64
 - ✓ P4V2-64ac
- Direct PCI Express GEN2 link with carrier's central PCI Express switch implemented with SAMTEC HLCD high speed coax flat cable
- Easier insertion / extraction in / from VME64x backplane through dedicated mechanical element

Overview

IOxOS Technologies introduces the XPM_1262, a 6U VME64x expansion carrier board providing two additional PMC/XMC slots and up to two HDD/SDD storage devices with RAID support (sold separately). This enhancement is made possible by its high-performance XPM expansion port featuring PCI Express GEN2 and SATA I, II and III connections.

The XPM_1262 is the ideal companion for the whole new line of IOxOS Technologies VME64x products featuring its proprietary FPGA based PCI Express to VME64x Bridge implemented in a Xilinx Artix-7 device, making possible the expansion of their capabilities in terms of both I/O and storage.

The XPM_1262 complies with VITA 35 standard when mapping PMC/XMC Jn14/Jn24 I/Os to VME P2 connector.

Introduction

The XPM_1262 is a 6U VME64x expansion carrier board featuring:

- Two XMC/PMC slots
- Two SATA storage devices (sold separately) supporting following configurations:
 - ✓ 2 x Half-Slim SATA SSD with RAID support
 - ✓ 1 x 2.5" SATA HDD/SSD
- Compatibility with following IOxOS Technologies COTS:
 - ✓ VDC_7920 VME64x Dual Carrier
 - ✓ PEV_7912 PCIe to VME64x Bridge
 - ✓ IFC_1211 VME64x Single Board Computer featuring Xilinx UltraScale FPGA and Freescale T-Series PowerPC
- Direct PCI Express GEN2 link with carrier's central PCI Express switch and SATA connections implemented with SAMTEC HLCD high speed coax flat cable
- VITA 35 compliance

Environmental Specifications

Estimated Power (PMC/XMC not plugged)	+5V →6[A] (VITA 1.7 max 7.5[A]) +3.3V locally generated from +5V ±12V not used onboard
Compliance	VME64x VITA 1.1 + VITA 1.5-2003 XMC VITA 42.3 VITA 35: <ul style="list-style-type: none"> • P4V0-64 • P4V2-64ac
Operating Temperature	Commercial: 0°C to +55°C 400 LFM Industrial: -40°C to +55°C 400 LFM
Regulatory Compliance	Immunity: EN50082-2 / EN55024 Emission: EN55022 Class A Safety: EN60950

PMC/XMC Jn14/Jn24 Mapping to VME P0 & P2

The connection between the PMC/XMC Jn14 (slot #1) and Jn24 (slot #2) I/Os and VME connectors is compliant with following VITA 35 standard connection configurations:

- P4V0-64: 64 Jn24 I/Os mapped to VME P0
- P4V2-64ac: 64 Jn14 I/Os mapped to VME P2 rows a and c

XPM Expansion Port

The XPM_1262 is directly connected to the carrier's PCI Express switch and SATA infrastructures with a high speed coax flat cable, SAMTEC HLCD, that fulfills the PCI Express GEN2 and SATA III performance requirements.

The XPM_1262 features a dedicated mechanism supporting easy insertion/extraction in/from the VME64x backplane.

Ordering Information

Article Reference	Product Description
XPM_1262-A0	VME64x Expansion Module VITA 35 P4V0-64 and P4V2-64ac

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