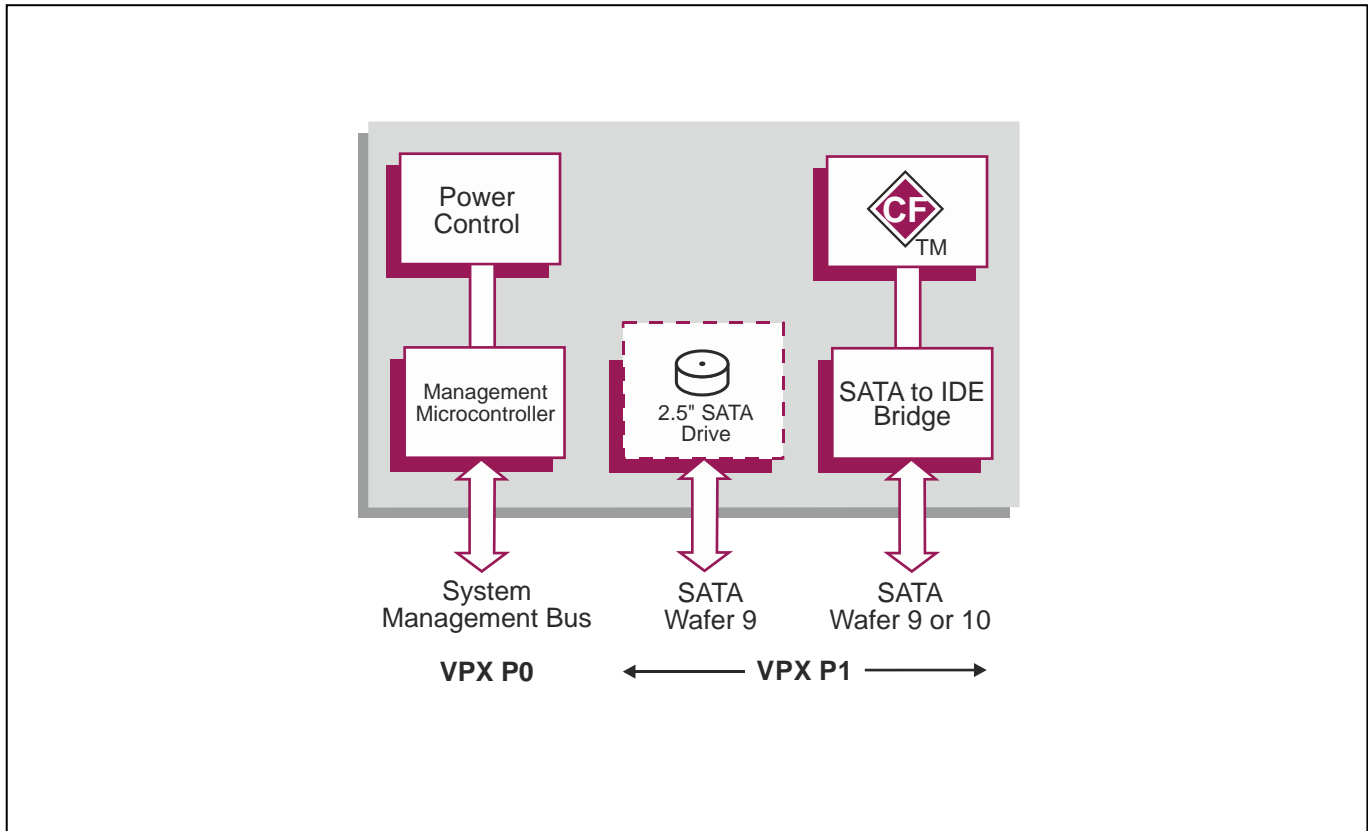


3U VPX Mass Storage Module

Key Features

The TR MS1/x21 mass storage module provides a flexible solution for designers wishing to add a 2.5-inch SATA mass storage drive to a 3U VPX system.

- Air-cooled and conduction-cooled versions are available
- Ideal for a range of applications including the defense, industrial control, telecommunications, telemetry and aerospace industries
- A CompactFlash™ site is also supported by this module



VPX Mass Storage Module

- 3U VPX Mass Storage Module supports:
 - a single 2.5-inch SATA300 hard disk drive (HDD) or a 2.5-inch SATA300 solid-state drive (SSD)
 - Type-I CompactFlash® site
 - utilizes direct SATA connections via backplane or optional rear transition module
- compatible with several OpenVPX module profiles
- for rugged VPX-REDI (RCx-Series) versions:
 - conduction-cooled to VITA 48.2
 - -40°C to +85°C at card edge
 - conformally coated
 - see TR MS1/321-RCx datasheet

CompactFlash Site

- CompactFlash Type-I site available:
 - implemented via SATA to EIDE interface connected to VPX P1 wafer 9 or 10

Compatible VPX System Boards

- contact your local sales office for the latest range of boards supported
- supported operating systems depend on the 3U VPX system controller board used

VPX Backplane Interface

- P0 and P1 support OpenVPX configuration
- compatible with OpenVPX module (VITA 65) profiles:
 - MOD3-STO-2U-16.5.1-1
 - MOD3-STO-2U-16.5.1-2

System Management

- System Management interface:
 - implements the SMO-1 interface
- on-board System Management Controller
- supports 8 Kbytes of non-volatile memory

Electrical Specification

- maximum current figures (including HDD):
 - +5V VS3 @ 1.1A, voltage +5% / -2.5%
 - +3.3V VS2 @ 0.2A, voltage +5% / -2%
 - +3.3V AUX @ 0.2A, voltage +5% / -5%
- +12V AUX and -12V AUX are not required

Safety

- PCB (PWB) manufactured with flammability rating of UL 94V-0

Environmental Specification

- operating temperature:
 - HDD: 5°C to +55°C
 - SSD: VITA 47 Class AC1, 0°C to +55°C
 - air-cooled
- non operating temperature:
 - HDD: contact sales office
 - SSD: VITA 47 Class C1, -40°C to +85°C
- 10% to 90% Relative Humidity, non condensing

Mechanical Specification

- 3U VPX form-factor (VITA 46.0, VITA 48.0)
- 3.9 inches x 6.3 inches (100mm x 160mm)
- optional slot widths:
 - 0.8-inch (VITA 46.0)
 - 1.0-inch (IEEE 1101.10 as per VITA 46.0)
 - 1.0-inch (VITA 48 as per VITA 65)
- connectors to VITA 46.0 for P0, P1 and P2

Note: environmental and mechanical specifications for mass storage drives may vary depending on the size and the type. Please contact local sales office for further details



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