

## 3 Slots, 3U VPX, Intel® Processor based Development System



### APPLICATIONS

SY VPX/3x3 is an entry level 3U VPX™ system available in a variety of configurations for development purposes. It is available with both high performance and low power consumption processor board options to provide a practical, high quality development environment for 3U VPX applications. SY VPX/3x3 is a neat enclosure that is suitable for desk mount use and provides three vertical slots for payload boards, a VPX backplane, cooling fans

### HIGHLIGHTS

- 3U VPX™ Development System:
  - 3 vertically mounted 3U VPX slots
- Extra wide 8HP (1.6-inch) backplane slot pitch:
  - accepts 0.8-inch, 0.85-inch and 1.0-inch modules
  - gives space between slots for attachment of emulator pods or debug/programming connectors
- VPX backplane provides:
  - 1 x system controller slot
  - 1 x peripheral slot
  - 1 x storage (or peripheral) slot
  - Fat Pipe data fabric connections from system controller slot to both peripheral slots
  - dual SATA channels between system controller slot and storage slot
  - compatible with OpenVPX™ BKP3-CEN03-15.2.9 backplane profile
- Pre-installed board:
  - 1 x Intel® based processor board, with onboard SATA Flash Module and a Rear Transition Module
- Pre-installed system I/O features include (as a minimum):
  - graphics interface
  - serial ports
  - USB ports
  - Gigabit Ethernet channels
  - Serial ATA channels routed to storage slot
- Optional boards:
  - up to 2 x PMC/XMC carrier boards
  - 1 x mass storage board including 2.5-inch SATA storage drive and CompactFlash® site
- Embedded 250 Watt modular power supply:
  - 90-264V AC, 47Hz to 63Hz
- Support for Linux®, Windows® and VxWorks®

## 3U VPX Development System

- 3U VPX™ Development System:
  - 3 vertically mounted 3U VPX slots
  - cooling air intake at the bottom of the system
  - air exhaust at top of the system
- VPX backplane provides:
  - 1 x system controller slot
  - 1 x storage or peripheral slot
  - 1 x peripheral slot
  - fat pipe (x4) data plane fabric connection between system controller slot and each peripheral slot
  - dual SATA channels between system controller slot and mass storage slot
  - backplane compatible with OpenVPX™ (VITA 65) BKP3-CEN03-15.2.9 profile

## System Configuration

- pre-installed VPX processor board options:
  - 1 x TR 80x/39x
  - 1 x TR 90x/31x
  - 1 x TR D2x/3sd
  - 1 x TR B1x/3sd
  - including Rear Transition Module (RTM)
- slots available for VPX development:
  - 2 x peripheral slots
- option for TR XMC/301 VPX PMC/XMC carrier
- option for TR MS/321 mass storage board
- contact sales for further details

## Software Support

- supports Linux®, Windows® and VxWorks®:
  - system supplied with Board Support Package
  - operating system not supplied
- VITA 46.11 compatible Tier 1 Chassis Manager included with TR D2x/3sd and TR 81x/3sd

## Power Supply

- Integrated 250W modular power supply:
  - +12V output (5.5A max)
  - +5V output (33A max, 0A min)
  - +3.3V output (33A max, 0A min)
  - rated power 250 Watt
  - AC 90-264V, 47Hz to 63Hz input

## Environmental Specification

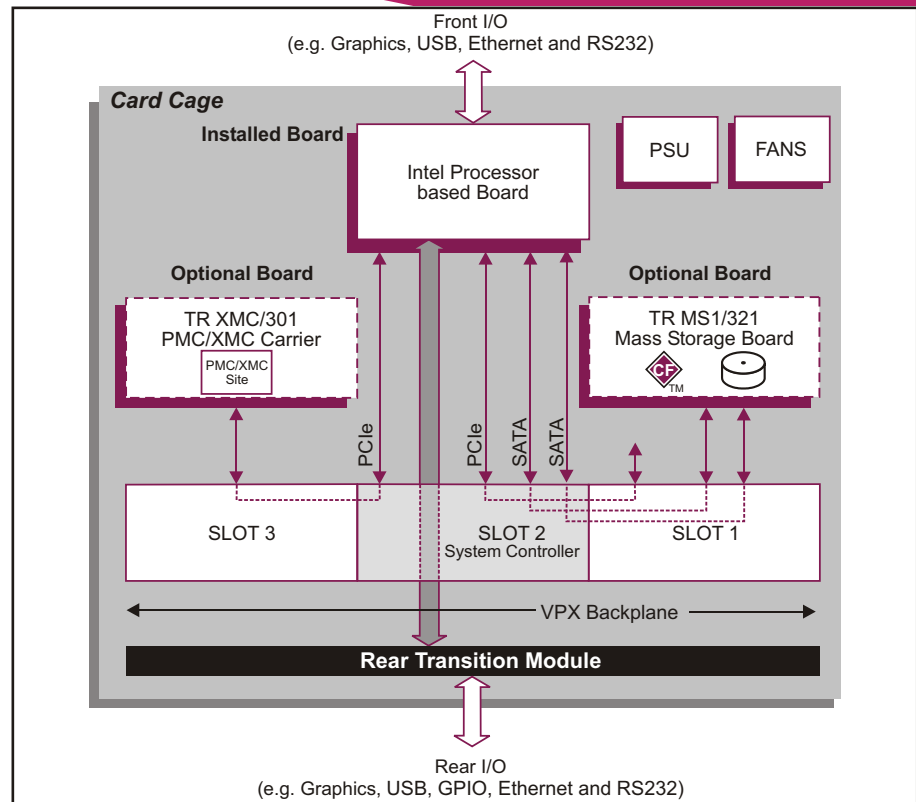
- operating temperatures:
  - +5°C to +40°C (operating)
  - -25°C to +65°C (non-operating)
- relative humidity, non-condensing:
  - 10% to 90% (operating)
  - 5% to 90% (non-operating)

## Mechanical Specification

- chassis weight including processor board and mass storage board is less than 6kg (13.2lbs)
- 8HP (1.6-inch) backplane slot pitch supports:
  - 0.8-inch, 0.85-inch and 1.0-inch modules
- chassis dimensions:
  - total chassis height is 4U
  - w 342mm (9.2-inch) x
  - d 295mm (11.6-inch) x
  - h 190mm (7.5-inch) - with legs folded
  - h 227mm (8.9-inch) - with legs extended

## Safety

- PCBs (PWB) manufactured with flammability rating of UL94V-0



## Accessories

### TR XMC/301 PMC/XMC Carrier

- optional PMC/XMC carrier board:
  - uses either peripheral slot
- PMC site supports:
  - 32/64-bit, 33/66MHz PCI bus
  - 64-bit PCI-X bus up to 133MHz
  - 5V and 3.3V signaling
- XMC site supports:
  - PCIe x4 interface (VITA 42.3)
- front panel I/O
- rear I/O options via PMC (Pn4) or XMC (Pn6) connector:
  - rear I/O mapping (VITA 46.9)
- OpenVPX compliant

### TR MS1/321 Mass Storage

- optional mass storage board:
  - uses the mass storage peripheral slot
  - provides 2.5-inch SATA storage drive
- supports CompactFlash® site:
  - provided via on-board SATA to EIDE bridge
- OpenVPX compliant

## ORDERING INFORMATION

### Order Number Product Description (Hardware)

SY VPX/3x3-yz Intel® processor based 3U VPX™ Development System

For ordering options please contact your local sales office.