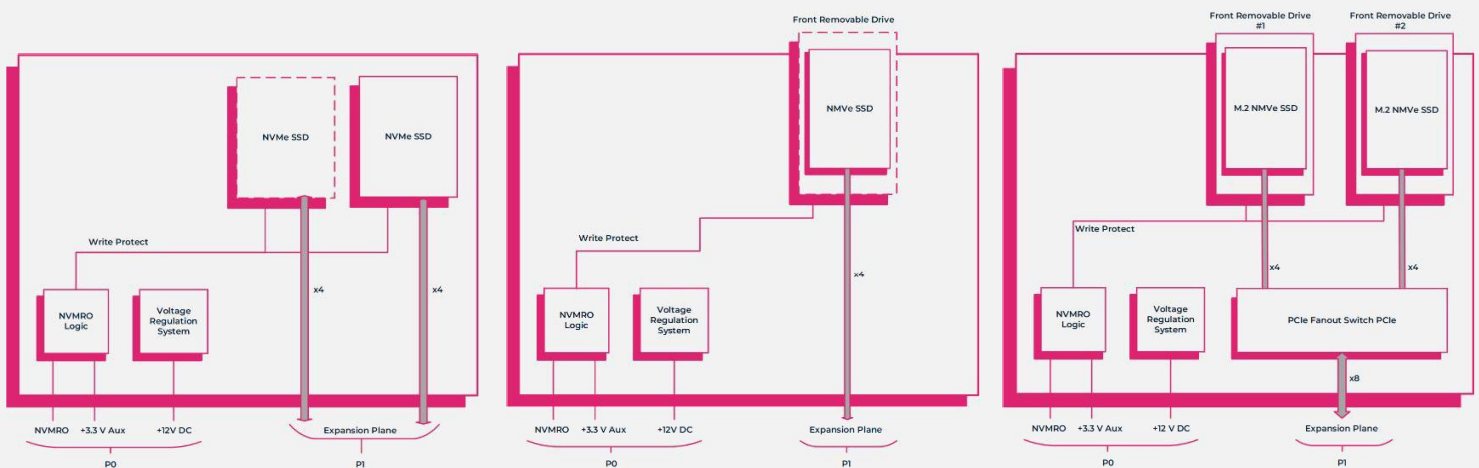


## Rugged 3U VPX Plug in Card with Storage options

### Key Features

TR MS8/60x is a rugged 3U VPX™ plug in card aligned to the SOSA Technical Standard for high capacity and FIPS 140-3 compliant storage within a single 1-inch slot pitch. It offers flexible storage configurations with class leading security features.

- 3U VPX Storage Module
- Fixed or removable drive options
- Up to 15.3TB capacity
- FIPS 140-3 Compliant options
- Secure Erase and Write Protection
- Rugged conduction-cooled



Option 1: fixed drive(s)

Option 2: one removable cannister

Option 3: two removable cannisters

## Common Features

- Rugged 3U VPX™ Storage Card
- Compatible with OpenVPX™ slot profile
  - SLT3-PAY-1FIU1S1S1U1U2FIH-14.6.11-n
- Data Plane: N/A
- Expansion Plane: PCIe Gen 3 x8 (EP00-EP07)
- Control Plane: N/A
- incorporates a PCIe Gen 3 Fanout Switch
- up to 1600MB/s storage bandwidth
- conformally coated

## Option 1: fixed drive(s)

- fitted with a 15.3TB SSD
- other capacity drives available for volume orders

## Option 2: One removable Cannister

- cannister capacity 7.6TB or 3.84TB (FIPS 140-3 compliant)
- smaller capacity cannisters available for volume orders

## Option 3: Two removable Cannisters

- cannister capacity 1.92TB or 960GB (FIPS 140-3 compliant)
- other capacity cannisters available for volume orders

## Security Features

- hardware write protection implemented by NVMRO signal
- data-at-rest self-encrypting drive option with AES-256 and TCG Opal 2.0 compliance
- secure erase
- Hardware-based FIPS-197 Encryption
- FIPS 140-3 compliant options (roadmap to FIPS 140-3 validation)

## Safety

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

## Electrical Specification (Estimated)

- Typical:
  - +12V VS1 @ TBD
- +3.3V AUX @ TBD
- +12V AUX and -12V AUX not connected
- +5V and +3.3V are not connected

## Environmental Specification

- operating temperature (at card edge)
  - VITA 47.1 Class CC4, -40°C to +85°C
  - Conduction-cooled (VITA48.2)
- non-operating temperature
  - VITA 47.1 Class C4, -55°C to +105°C
- operating altitude:
  - -1,500 to 60,000 feet (-460 to 18,300 meters)
- relative humidity: 5% to 95%, non-condensing

## Mechanical Specification

- 3U VPX form-factor (VITA 46.0, VITA 48.0)
- 3.9 inches x 6.3 inches (100mm x 160mm)
- slot width (VITA 48.0)
  - 1.00 inch
- connectors to VITA 46.0 for P0 and P1
- operating mechanical:
  - shock - VITA 47.1 Class OS2, 40g, 11ms
  - random vibration – VITA 47.1 Class V3 0.1g<sup>2</sup>/Hz

## Related Products

- Compatible with Concurrent's range of SOSA Aligned Processor PICs. 3U VPX Development systems are also available. Contact Concurrent for more details.