

# Rugged Systems

## CONNECT AND PROTECT

### Titan COTS – for shock and vibration levels to 25g

For rugged applications within the mobile aerospace and defense industry, nVent introduces the nVent SCHROFF Titan COTS system with enhanced shock and vibration resistance. This 19" VPX system is mechanically based on the SCHROFF EuropacPRO type R subrack and can withstand shock loads up to 25g and vibrations up to 3g.



#### SYSTEM IN ACCORDANCE WITH:

- IEC 60297-3-100, -101, -102, -103, -104, -105
- IEEE 1101.1, IEEE 1101.10/11
- IP 20, in accordance with IEC 60529
- MIL-STD 810F (Shock 10g 30ms)
- MIL-STD 167 (Vibration)
- MIL-STD 461 (EMC)

#### COMPLETE VPX HARDWARE MANAGEMENT PORTFOLIO

- VITA 46.11 compliant
- Pigeon Point ChMM-700R and Chassis Manager
  - Chassis management mezzanines - 700
  - Chassis management starter kit (ChMM-700R)
- VPX Board Management Reference
  - Intelligent Platform Management Controller
  - Three versions available:
    - Based on STM32F407
    - Based on Xilinx Zynq UltraScale+
    - Based on MicroSemi Smart Fusion

#### TECHNICAL CHARACTERISTICS

- 24 wide range AC Input at the rear side
- LED voltage display at the front plate
- 10 Slot 6U VPX backplane BKP6-CEN10-11.2.4.4 with 5" Slot pitch
- Other slot counts possible
- VME / VME64x-, VXS-, CompactPCI-, MicroTCA or any other specific backplanes on demand
- Optional mounted telescopic rails increase the service-friendliness
- Honeycomp filter for improved EMI protection
- Delivery includes 6U VPX pluggable Power Supply with 1000W

#### ADVANTAGES AND BENEFITS

- Best in class signal integrity for highest data transfer rates with nVent SCHROFF VPX backplanes
  - Supports latest VPX standard with link speeds to 10.3125 Gbaud data rate
- Optional heat dissipation with front-to-back forced air cooling and fan speed control
- Front cooling panel is easily removed for maintenance and accessibility
- Simple and quick adaptations with modular construction



# nVent SCHROFF Rugged-Systems

## FLEXIBLE ADAPTATION POSSIBLE

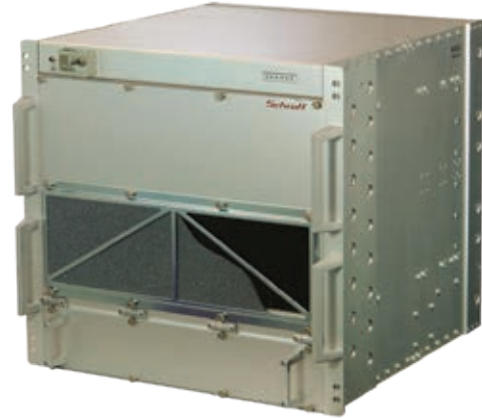
- Height, width, depth, slot count
- Position and type of mounting bracket
- Position and number of front and rear panel, I/O connectors
- Material used (EN AW6062, 6082, 7075, ...)
- Custom VPX backplane designs available on request

## SERVICES AVAILABLE

- Design and engineering support
- Complete thermal analysis to enable the highest performing designs
- Integration and assembly

## ORDER INFORMATION

Description	Order number
Rugged Subrack VPX	20836-780



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