

VPX 3U SFF Chassis with **Air-/Plane®** Backplane and integral cooling



Introducing Comtel's 3U Small Form Factor Systems

The Comtel 3U Small Form Factor (SFF) Sub-System is low-cost, light-weight and scalable; primarily aimed at the UAV, Helicopter and Military Vehicle market. The system features a novel modular approach utilising a common extrusion for the enclosure. This version includes integrated cooling to allow increased power and independent cooling.

This SFF System is also available as a COM Express System or with removable SSD.

- 3-Slot 3U VPX Sub-System.
 - 1x PSU (VITA62)
 - 2x Payload (VITA48.2)
- 1.0" Pitch
- Customisable Front Panel I/O
- Backplane with Comtel's high-speed **Air-/Plane®** technology for 25Gbps per differential pair is available..
- SOSA Aligned
- Short Lead-Time
- IP67 sealed
- Low-Cost
- Light-weight
- Scalable
- Integrated Cooling System
- Customer selectable combination of Payload and/or removable SSD

Product Features

Card Slots

- Slot count: 3; (2x Payload + 1x PSU)
- Pitch: 1.0"
- VITA 48 Compliant
- Scalable: Other slot counts are available (see further SFF Datasheets)

Backplane

- Custom on request
 - High Speed **Air-/Plane®** technology for 25Gps per differential Pair
 - VITA 62 PSU slot
 - VITA 66 & 67 available
 - SOSA aligned

Chassis

- Small Form Factor (extruded modules)
- Baseplate mounted
- Dimensions
 - 160mm Wide
 - 83mm High
 - 268mm Long
 - Weight: <3.0Kg (excl Payload Boards)

Front Panel

- Customisable

Cooling

- Conduction and integrated Fan

Power

- Total power: 215W at 55°C (configurable)
- Power input 28VDC

Designed to meet Environment		
PARAMETER	SEVERITY	ENVIRONMENTAL
Temperature (Operating)	-40 to +71°C *	Upper: MIL-STD-810F Meth 501.4 Proc I & II Lower: MIL-STD-810G Meth 502.4 Proc I & II
Blowing Rain		MIL-STD-810G Meth 506.6 Proc I
Salt fog		MIL-STD-810G Meth 509.6
Vibration		Operational: MIL-STD-810F Meth 514.5
Shock	6 g 11 ms	Mechanical Shock: MIL-STD-810G Meth 516.7 Proc II & IV
Sand and dust		MIL-STD-810G Meth 510.6 Proc I & II
Icing/Freezing Rain		MIL-STD-810G Meth 521.3
Splash		IP65 IEC 60529 / MIL-STD-108
EMC	CE101, CE102, RE101, RE102	MIL-STD-461F

* Depending on configuration

Customisation

This Datasheet describes a base configuration for this system.
The Backplane is specific to customer requirements.
The Front Panel I/O is also specific to customer requirements.

Compliance

- ANSI/VITA 46.0 VPX Baseline
- ANSI/VITA 48.2 VPX REDI Conduction Cooling
- ANSI/VITA 66.0 VPX Optical Interconnect
- ANSI/VITA 67.0 VPX Coaxial Interconnect
- ANSI/VITA 65 OpenVPX System Standard

Other compliances on request

Order Information

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Options

Additional slot count configurations

COM Express

Removable SSD

VNX+