

## FEATURES AND BENEFITS

- ATR-style small form factor baseplate conduction-cooled chassis
- Rugged environments for airborne and ground mobile applications
- Extended temperature, as well as extended shock and vibration tolerance
- Designed to the latest OpenVPX™, VPX and REDI draft specifications
- Supports 4-slot OpenVPX, VPX REDI 1" pitch backplane
- 200 W military power supply for MIL-STD-704 aircraft and MIL-STD-1275 vehicle use
- Customizable I/O configurations
- Custom backplane
- Custom front panel I/O
- Custom configurations and integration services available



# CHASSIS SOLUTION SFF-4

## SMALL FORM FACTOR BASEPLATE CONDUCTION-COOLED CHASSIS

The Small Form Factor-4 (SFF) utilizes an ATR-style design for maximum baseplate conduction cooling. Engineered for strength, lightweight, and maximum cooling in a conduction-cooled environment, the SFF-4 enclosure incorporates a specially designed frame and configurable conducting walls for extended temperature, shock and vibration protection.

The SFF-4 is available with 5 or 6 slots supporting the stability and performance of OpenVPX, VPX REDI and CompactPCI. Available with a 200 W military power supply, it has a DC Input of 28 VDC.



## TECHNOLOGY OVERVIEW

| PHYSICAL     |                                                                                                                                                                                                                                         |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Width        | 6.00" (152.40 mm)                                                                                                                                                                                                                       |
| Height       | 7.62" (193.55 mm)                                                                                                                                                                                                                       |
| Depth        | 7.00" (177.8 mm)                                                                                                                                                                                                                        |
| Weight       | 15 lbs (including Power Supply)                                                                                                                                                                                                         |
| CONSTRUCTION |                                                                                                                                                                                                                                         |
| Extrusions   | Aluminum 6061                                                                                                                                                                                                                           |
| Card Cage    | Conduction-cooled: <ul style="list-style-type: none"> <li>• 5-slot x4 1.0" pitch per VITA 48.2 payload slots and x1 power supply slot</li> <li>• 6-slot x5 0.8" pitch per IEEE 1101.2 payload slots and x1 power supply slot</li> </ul> |
| BACKPLANE    |                                                                                                                                                                                                                                         |
| Type         | OpenVPX, VPX, CompactPCI® (cPCI)                                                                                                                                                                                                        |
| Size         | 3U form factor                                                                                                                                                                                                                          |
| Slots        | <ul style="list-style-type: none"> <li>• x4 1.0" pitch OpenVPX per VITA 65</li> <li>• x4 1.0" pitch VPX REDI per VITA 48.2</li> <li>• x5 0.8" pitch cPCI per ANSI/VITA 30.1</li> </ul>                                                  |

TECHNOLOGY OVERVIEW (CONTINUED)

| COOLING             |                                                                                                                                  |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Type                | Conduction-cooled baseplate to be held within required operating temperature range (payload dependent)                           |
| POWER               |                                                                                                                                  |
| DC Input            | 28 VDC nominal (22-33 VDC continuous)                                                                                            |
| Watts               | 200 W 28 VDC power supply compliant to MIL-STD-704F and MIL-STD-1275                                                             |
| ENVIRONMENTAL       |                                                                                                                                  |
| Temperature         | <ul style="list-style-type: none"><li>Operating: -40 to +71 °C (baseplate and ambient)</li><li>Storage: -55 to +105 °C</li></ul> |
| Flammability Rating | UL94-V0                                                                                                                          |
| Shock/Vibration     | <ul style="list-style-type: none"><li>40 g, 11 ms</li><li>MIL-STD-810 ground vehicle and propeller aircraft methods</li></ul>    |
| EMI/EMC             | Designed to meet MIL-STD-461E CE102, CS101, CS114, CS115, CS116, RE101, RE102, RS101, RS103                                      |

WARRANTY

This product has a one year warranty.

CONTACT INFORMATION

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