

FEATURES

- Rugged 2U OpenVPX extreme cooling rackmount chassis:
- 1-slot 6U OpenVPX backplane – application-specific 2.2" pitch
- Ethernet/SNMP System Monitoring/Built-in test (BIT)
 - Atrenne rugged Power and Control Module (PCM)
 - Atrenne rugged Fan Controller
- MIL-STD-1399 1+1 redundant 350W power supply
- 55 CFM per slot N+1 Redundant Extreme Cooling
- +4.4 to +29.4°C
- EMI: MIL-STD-461F

CHASSIS SOLUTION 25-148

2U GROUND-BASED RUGGED RACKMOUNT OPENVPX SOLUTION FOR ISR APPLICATIONS



MARKET

Military

APPLICATION

Ground EW Application

CHALLENGE

Design and manufacture 2U ground-based high power air-cooled rackmount chassis with application-specific pitch 1-slot OpenVPX™ backplane and application-specific redundant 350W power supply as well as N+1 redundant extreme cooling.

CONCERNS

Program required high performance application-specific power supply along with challenging thermal requirements for very high power application-specific OpenVPX payload module.

HOW CAN WE HELP REDUCE YOUR RISK?

Atrenne can help you with all of your application-specific backplane and chassis requirements.

The solutions that you see on our website are just a small sample of what we have done. Please browse our solutions and contact us for a consultation.

The Atrenne 2U Ground-Based Rugged Rackmount OpenVPX Enclosure (Solution 25-148) is designed for ISR applications. This single-slot backplane supports an application-specific pitch OpenVPX card. The chassis includes SNMP based health monitoring. Designed to cool 55 CFM per slot and operate at +4 to +29.4°C, this application-specific rackmount enclosure supports a MIL-STD-1399 1+1 redundant 350W power supply and dual AC inputs.

CHASSIS SOLUTION 25-148

2U GROUND-BASED RUGGED RACKMOUNT
OPENVPX SOLUTION FOR ISR APPLICATIONS

SPECIFICATIONS

PHYSICAL	
Width	17.38"
Height	3.44"
Depth	20.67" (excluding handles)
Weight	25 lbs.
ENVIRONMENTAL	
Operating Temperature	+4.4 to +29.4°C
Storage Temperature	-40 to +70.9°C
Altitude	-300 ft to 15,000 ft
Humidity	10 to 50% non-condensing
Cooling	<ul style="list-style-type: none">• Extreme cooling of 63 CFM per slot with all fans running at full speed, 55 CFM per slot with failed fan• N+1 redundant cooling
Fungal Control	MIL-HDBK-454 Guideline 4
Shock	15 Gs, 40ms
Vibration	MIL-STD-810F
EMC	MIL-STD-461E
POWER/ELECTRICAL	
AC Input	<ul style="list-style-type: none">• Dual AC inputs• 220 VAC +/- 10%, Single-Phase, 47 Hz or 63 Hz
Backplane Connectors	6U VPX connectors
Monitoring Solution	<ul style="list-style-type: none">• Atrenne rugged Power and Control Module (PCM) with Ethernet/SNMP• Atrenne rugged Fan Controller
Connector Pitch	2.2"
CONSTRUCTION	
Extrusions	6063-T6 Aluminum
Top & Bottom	0.080" thick aluminum 5052-H32 per SAE-AMS-QQ-A-250/8.
Card Guides	Molded plastic, Noryl N190X black , UL94-V0
Power Supply	Application-specific N+1 redundant power supply -350W
Tapped Strips	Carbon steel bar stock with zinc plating and supplementary chromate treatment
ESD Ground Clips	Beryllium copper, alloy C17400, ½ HT, with bright tin plating/MIL-T-10727
Fan Tray	(4) high performance fans, 60X60X38MM

WARRANTY

This product has a one year warranty.

CONTACT INFORMATION

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