

## FEATURES

- Based on COTS COOL-CC6 conduction-cooled development chassis
- Hybrid 3U/6U conduction-cooled card cage
- Application-specific 3U/6U OpenVPX backplane
  - (2) 6U OpenVPX slots
  - (6) 3U OpenVPX slots
  - VITA 67.1 and VITA 67.2 RF feed-through on selected slots
  - Meritec VPX+ shrouds on RTM connectors, supporting VPX+ cabling (cables not installed)



# CHASSIS SOLUTION 68-175

MODIFIED COTS HYBRID  
3U/6U OPENVPX VITA 67 DESKTOP  
FORCED AIR CONDUCTION-COOLED  
DEVELOPMENT CHASSIS



## MARKET

Military

## APPLICATION

ISR Development Application

## CHALLENGE

Design and manufacture a conduction-cooled Modified COTS desktop development chassis based on the Atrenne standard COOL-CC6 chassis, modified with Hybrid 3U/6U card cage and backplane, as well as VITA 67.1 and VITA 67.2 RF Feedthrough on backplane and Meritec® VPX+ RTM cable provisions.

## CONCERNS

Program required quick turn delivery, 3U, 6U, VITA 67.1, VITA 67.2, and VPX+ RTM cable provisions all in one chassis solution.

## 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 Hybrid 3U/6U OpenVPX Desktop Development Chassis (Solution 68-175) is based on the Atrenne COOL-CC6 conduction-cooled development chassis. This application-specific design enables both 3U and 6U OpenVPX cards to be installed in the conduction-cooled card cage. The chassis and backplane support (2) 6U and (6) 3U OpenVPX slots. Selected slots also support VITA 67.1 and 67.2 RF feed-through. The card cage includes Meritec VPX+ shrouds on RTM connectors, supporting VPX+ cabling (cables not installed).

# CHASSIS SOLUTION 68-175

MODIFIED COTS HYBRID 3U/6U OPENVPX  
VITA 67 DESKTOP FORCED AIR CONDUCTION-  
COOLED DEVELOPMENT CHASSIS

## SPECIFICATIONS

PHYSICAL	
Width	8.38"
Height	23.27" + handle & feet
Depth	14.0"
Weight	46 lbs.
ENVIRONMENTAL	
Operating Temperature	0 to +30°C
Cooling	<ul style="list-style-type: none"><li>Cooling for &gt;150W per slot for 6U slots per OpenVPX</li><li>Cooling for &gt;50W per slot for 3U slots</li></ul>
EMC	FCC Part 15, Subpart J, Class A; CISPR 22, Class A: conducted portion only
POWER/ELECTRICAL	
AC Input	<ul style="list-style-type: none"><li>AC input</li><li>110/220 VAC</li></ul>
Backplane Connectors	<ul style="list-style-type: none"><li>3U VPX connectors</li><li>6U VPX connectors</li><li>VITA 67.1 connectors</li><li>VITA 67.2 connectors</li><li>Meritec VPX+ shroud on RTM connectors</li></ul>
Connector Pitch	1.0"
CONSTRUCTION	
Extrusions	6063-T6 Aluminum
Sideplates	0.120" thick aluminum, 5052-H32 with clear iridite (conductive) plating
Card Guides	Molded plastic, Noryl N190X black , UL94-V0
Power Supply	Embedded power supply - 1200 Watts
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	(2) high performance fans, 60X60X38MM

## WARRANTY

This product has a one year warranty.

## CONTACT INFORMATION

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