

## FEATURES

- 10U High Modified COTS rackmount solution
- Hybrid forced air/conduction card cage
- (2) 3U OpenVPX conduction-cooled slots
- (6) 6U OpenVPX air-cooled slots
- Application-specific Hybrid 3U/6U OpenVPX backplane
  - (2) 3U OpenVPX slots
  - (6) 6U OpenVPX slots
  - Based on rugged ATR backplane
- I/O configured to match rugged ATR with I/O cables to backplane
- Ethernet/SNMP Chassis Monitoring
- 0 to +50°C
- 0 to 5 kft
- 220 VAC power input
- 1700W embedded power supply

# CHASSIS SOLUTION 36-154

10U HYBRID 3U/6U, HYBRID  
COOLING OPENVPX RACKMOUNT  
DEVELOPMENT CHASSIS



## MARKET

Military

## APPLICATION

Development for Airborne ISR Application

## CHALLENGE

Design and manufacture a quick turn development chassis that provides a development environment which mimics the rugged airborne forced air conduction-cooled ATR chassis but with hybrid of 6U air-cooled and 3U conduction-cooled payload along with Ethernet/SNMP monitoring as well as I/O connectors that mimic the rugged ATR version.

## CONCERNS

Program required hybrid conduction/air cooling and hybrid 3U/6U OpenVPX card cage and backplane, with I/O and monitoring that mimic the rugged ATR version, and quick-turn delivery requirements.

## 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 10U Hybrid 3U/6U OpenVPX Hybrid Cooling Rackmount Development Chassis (Solution 36-154) is a Modified COTS (MCOTS) Solution based on our RME21XC COTS Chassis. It supports (2) 3U OpenVPX slot and (6) 6U OpenVPX air-cooled slots with an ATR style backplane and I/O that mimics the rugged ATR version. This card cage provides (2) conduction-cooled slots for the 3U OpenVPX cards and (6) air-cooled slots for the 6U OpenVPX cards. The chassis also includes a 1750W embedded power supply as well as Ethernet/SNMP Chassis Monitoring that mimics the rugged ATR version.

# CHASSIS SOLUTION 36-154

10U HYBRID 3U/6U, HYBRID COOLING OPENVPX  
RACKMOUNT DEVELOPMENT CHASSIS

## SPECIFICATIONS

PHYSICAL	
Width	17.18"
Height	10.47"
Depth	21"
Weight	50 lbs. including power supply
Construction	Bolted Aluminum
ENVIRONMENTAL	
Operating Temperature	0 to +50°C
Storage Temperature	-40 to +80°C
Altitude	0 to 5,000 ft
Humidity	5 to 95% non-condensing
Cooling	Fan cooled: <ul style="list-style-type: none"><li>• Forced air conduction for 3U conduction-cooled slots</li><li>• Forced air for 6U air-cooled slots</li></ul>
Shock	10 Gs, 11ms
Vibration	1 Gs RMS 10 to 330 Hz
EMC	FCC Class A (conducted only)
POWER/ELECTRICAL	
AC Input	220 VAC 47-63 Hz
Backplane Connectors	<ul style="list-style-type: none"><li>• 3U OpenVPX connectors</li><li>• 6U OpenVPX connectors</li></ul>
Monitoring Solution	Atrenne Rugged Power & Control Module (PCM) supporting Ethernet/SNMP
Connector Pitch	1.0"
Transmission Rate	3.125 Gbaud
CONSTRUCTION	
Extrusions	Aluminum 6063
Top & Bottom	Aluminum 5052
Power Supply	Embedded power supply: 1750W

## WARRANTY

This product has a one year warranty.

## CONTACT INFORMATION

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