

## RBC1- Rhino ATR Chassis

### Features

- Designed to meet Defence & Aerospace environmental specifications
- Conduction Cooled Card Slots
- All aluminum designed for harsh environments
- 3U, 03 slots of VPX or cPCI Slots
- 28VDC input Voltage with Input transients as per MIL-STD-704E
- Multiple output voltages
- Upto 120 watts Power Output
- Horizontal Front load Card Orientation
- Hard Mount
- I/O interfaces from VPX or cPCI backplane through I/O PWB
- Power & I/O interfaces through MIL Series Circular connectors.
- Vibration / Shock as per MIL-STD-810F
- EMI/EMC as per MIL-STD-461E
- IP65 Compliance

### OPTIONAL

- Backplane type supported;
  - 3U VPX
  - 3U cPCI
- ARINC404A
- AC or DC Input PSU
- Custom Backplane
- Custom I/O PWB



### 03 Slots, 3U VPX or cPCI ATR Chassis

Alligator's Rhino Series ATR is designed to meet the Defence & Aerospace environmental conditions with card area as per IEEE1101.2 mechanical standards.

The card area supports 03 Slots of 3U VPX or cPCI modules with the Conduction Cooled cooling methods, efficiently dissipates the heat generated from integrated modules & Power Supply modules through the cooling fins.

Rhino ATR's are designed and tested for the high levels of shock & vibrations as per MIL-STD-810F.

The interface terminations provisioned at the rear side of the ATR with MIL Series circular connector type for external world interfaces as per the requirements.

The mounting arrangement for the ATR is provided for hard mount mounting arrangement.

The power supply unit is a module type power supply with an input of 28VDC input options, through EMI Filter, providing multiple outputs.

\* Specifications are subject to change with out prior notice

# Specifications

## Construction

Material	:Aluminum
Mounting	:Hard Mount
Mechanical	:As per IEEE1101.2
Card Mount Orientation	:Horizontal Mount

## Cooling

Method	:Conduction
Slot wise	:03 Conduction Cooled Card Slots

## Backplane (Option #1)

Type	: 3U VPX
Number of Slots	:03
Standard	:As per VITA 46
PCB	:FR4/08
Supported board pitch	: 0.8" or 0.85"
Switch Fabric	:As per VITA46.3 As per VITA46.4 As per VITA46.6

## Backplane (Option #2)

Type	: 3U cPCI
Number of Slots	:03
Supported Board Pitch	:20.32mm
PCB	:FR4
Standard	:As per PICMG

## Ordering Details:

**Part No: RBC-xxx-xx-H-A5**

## Power Supply

Input Type	:DC Input
Input Voltage	:28VDC
Input Transients	:As per MIL-STD-704E
Filter	:Integrated, as per MIL-STD-461E
Output	:5V, 3V3 & ±12V
Power	:120Watts

## Interface Connectors

Connector Type	: MIL-D38999
37 Pins with 22 pin size	:01No
Power 4pin	:01No
Others	:On Request

## Mechanical Dimensions

Wide	:155mm
Height	:124mm
Deep	:218mm (w/o handle)
Deep	:254mm (With Handle)
Weight	:3.0Kgs

## Environmental

Operating Temperature	: -40°C to 70°C
Storage Temperature	: -40°C to 85°C
Operating Humidity	:95% @40°C
EMI/EMC	:As per MIL-STD-461E
Vibration	:As per MIL-STD-810F
Shock	:As per MIL-STD-810F
Altitude	:Upto 70,000ft

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