

Rhino – RBx17

Features

- Designed and built to meet Military Standards
- As per IEEE 1101.20 mechanical standards
- All aluminum designed for harsh environments
- ¾ ATR Volume / Size
- Upto 300Watts Power
- Input / Output interface termination through MIL Series Connectors
- Vertical Top load Card orientation
- Hard Mounting Style
- Conduction Cooling
- EMI/EMC as per MIL-STD-461E
- Environmental as per MIL-STD-810F / JSS 55555

OPTIONAL

- Input Transients as per MIL-STD-704E or MIL-STD-1275
- AC or DC input type PSU
- Power Supply Output as per requirement
- Backplane Options;
 - 3U VPX
 - 3U cPCI
- Custom Backplane
- Custom I/O PWB
- MIL-C-38999 or Blindmate style Terminations
- ARINC Tray w/o Shock Isolators



3/4th Conduction Cooled ATR Chassis

Alligator's Rhino Series ATR chassis is designed to meet the Defence & Aerospace standards with card area designed as per IEEE1101.20 mechanical standards.

The ¾ ATR chassis provisioned for the card area is implemented with Forced Air Conduction Cooling method having cooling fins designed for the thermal load and Plenum Air arrangement.

The ATR supports standard 3U VPX or cPCI backplane with various card load orientation depending on the requirement. Custom designed backplane available as an option.

Input & Output Interface choice available for routing I/O interfaces through available Custom Designed backplane or Standard backplane with custom I/O PWB. This features cable securing for the levels of shock, vibration and ease of cabling.

The Rhino ATR series are designed to support for ARINC404A or Hard mount mounting arrangements.

The power supply available upto 300 watts output with wide input range of 230VAC or 115/VAC 400Hz or 28VDC making it versatile for wider applications.

ATR is designed to meet EMI/EMC as per MIL-STD-461E and Vibration / Shock as per MIL-STD-810F.

Specifications

Mechanical

Material Type	: Milled Aluminum
Mounting	: Hard Mount
Card Area	: As per IEEE 1101.20

Cooling

Type*	: Conduction Cooled
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*Note: Thermal budget details to be provided on per card basis.

Card Area

Orientation	: TBA
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Surface Finish

Internal	: Yellow Chromate
External	: Black hard Anodize

Power Supply

Input type	: AC or DC
Output	: Upto 300Watts
Input Transients (opt)	: As per MIL-STD-704E or MIL-STD-1275
Input Filter	: Integrated

Dimensions

Height	: 193.05mm
Wide	: 190.05mm
Deep	: 320.50mm
Weight	: TBA

Signal Interface & Terminations

Power	: MIL Series Connector
I/O	: MIL Series Connectors
Others	: On request

Environmental

Operating Temperature	: -40°C to 70°C
Storage Temperature	: -50°C to 100°C
Operating Humidity	: 5%-95% NC
EMI/EMC	: As per MIL-STD-461E
Vibration	: As per MIL-STD-810F
Shock	: As per MIL-STD-810F
Altitude	: Upto 70,000ft.

Ordering Details:

Part No: RBx17-xxx-xxx-xx

