

# ATR, MicroTCA, Chassis Platform

## ATR - Air Transport, Rugged



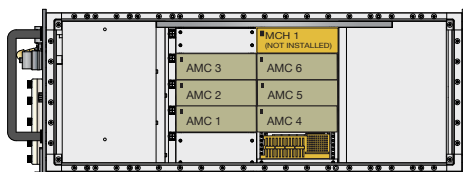
### FEATURES:

- COTS, convection cooled 1/2, 3/4, 1, or 1 1/2 ATR per ARINC 404A
- PICMG® specification µTCA.1 R1.0
- IEEE 1101.10 Compliant
- Full range of isolated military power supplies from 150 to 750 watts
- Conduction cooled versions available
- cPCI, µTCA or custom bus formats
- Modular design allows for customization with minimum cost/lead time
- Advanced airflow distribution through card cage

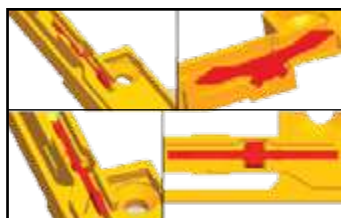
### SCOPE OF SUPPLY

The all-aluminum ATRs are made from punched and formed sheet metal and milled plates. A removable front panel allows I/O customization to exact application requirements and increased configurability. The ATR enclosures use electrostatic dust filters, honeycomb EMI filters and a narrow screw spacing to seal off every external seam to ensure compliance to MIL-STD-461D. The rugged designs meet the requirement for shock, vibration and structural integrity per MIL-STD-810F, MIL-STD-167 and MIL-STD-901D.

### ORDERING INFORMATION

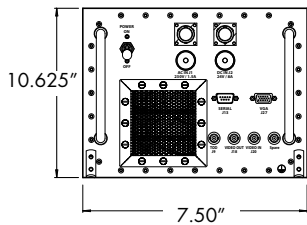


Description	Order Number
<ul style="list-style-type: none"> <li>■ 3/4 ATR</li> <li>■ Holds 6 AMC (single/Full-sized)</li> <li>■ Star backplane: 6 AMCs, 1 MCH, 1 PM, 1 CU</li> <li>■ 1 x hot swap CU, bottom to top airflow</li> <li>■ 1 x 400W 90-230VAC input, PM (plug in)</li> <li>■ MCH not included</li> </ul>	<p>ATRO6S6KTBLVG4XXP</p>

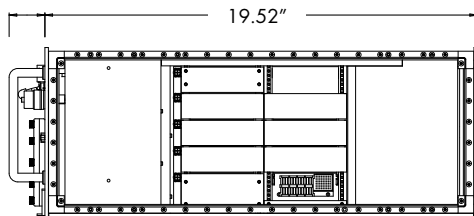


Anti-vibration Card Guide  
(see page 129)

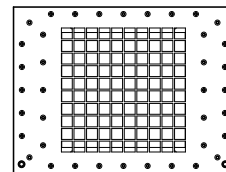
## LINE DRAWINGS



Front View

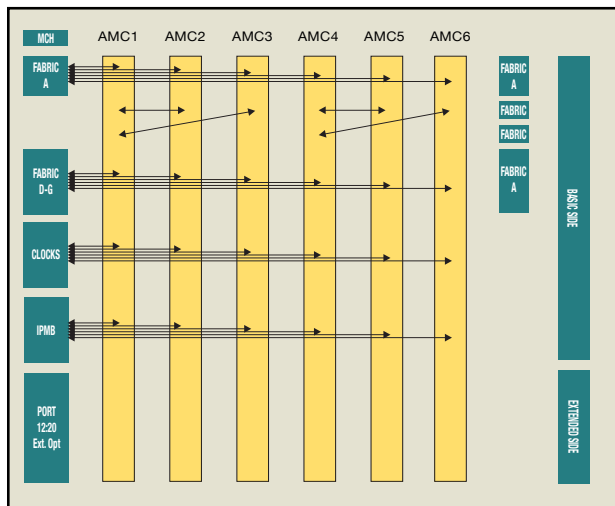


Side View



Rear View

## BACKPLANE MAPPING



## ENVIRONMENTAL

	Operating	Storage / Transit
<b>Temperature:</b>	0°C to +50°C	-20°C to +70°C
<b>Altitude:</b>	15000 ft.	50,000 ft. (15,240m)
<b>Humidity:</b>	0% to 95% Non condensing	0% to 95% Non condensing
<b>Shock:</b>	15 Gs @ 11ms	25 Gs @ 11ms (per ASTM 0775)
<b>Vibration:</b>	15-2000 Hz @ .1g2/Hz <sub>RMS/12G</sub>	15-2000 Hz @ .1g2/Hz <sub>RMS/12G</sub>
<b>Agencies:</b>	Designed to meet UL 1950, FCC Class A or B, CE	

## CUSTOM CONFIGURATIONS



NUMBER OF AMC SLOTS  
Example: 01 = 1, 10 = 10

MODULE SIZE  
S = Single Module  
D = Double Module  
Z = Combination  
X = Not Installed

MODULE SIZE (PITCH)  
3 = Compact (3HP)  
4 = Mid-Size (4HP)  
6 = Full-Size (6HP)  
Z = Combination

FABRIC TOPOLOGY  
K = Single Star  
L = Dual Star  
X = Not installed  
Z = Custom

HEIGHT  
T = Tall  
S = Short

WIDTH  
A = 1/2 (123.95mm)  
B = 3/4 (190.5mm)  
C = 1 (257.05mm)  
D = 1 1/2 (390.65mm)

DEPTH  
L = Long (498mm)  
S = Short (320.5mm)

MODULE ORIENTATION  
V = Vertical (Default Std)

PSU INPUT  
C = 90 - 230VAC (Fixed)  
G = 90 - 230VAC (Plug in)  
H = 48VDC (Plug-in)  
K = 48VDC (Fixed)  
M = Dual 48VDC (2xHS, N+1)  
P = 90 - 230VAC(2 x HS, N+1)  
X = No PSU  
Y = 24V Plug in  
Z = Dual 24V Plug in

PSU OUTPUT  
(NOT ALL PSU COMBINATIONS AVAILABLE)  
2 = 200 - 299 watts  
3 = 300 - 399 watts  
4 = 400 - 499 watts  
5 = 500 - 599 watts  
X = Not Installed

MCH  
S = 200 - 299 watts  
D = 300 - 399 watts  
X = Not Installed

JSM  
Y = Installed  
X = Not Installed

COOLING  
P = PUSH Cooling  
R = Redundant Push-Pull  
X = Not Installed