Atrenne
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RME9XC

9U OPENVPX FORCED-AIR-COOLED DEVELOPMENT CHASSIS

BENEFITS

- This extreme cooling rackmount chassis meets stringent ANSI/VITA 65 power and cooling requirements for air-cooled 3U 75W OpenVPX modules
- Extreme cooling for 75W per slot per ANSI/VITA 65 OpenVPX
  - >18 CFM/slot airflow with high pressure drop modules per ANSI/VITA 65 OpenVPX
  - Front and rear slot blockers are required in unpopulated slots to maintain airflow in populated slots
  - Airflow: lower front air intake, rear exhaust
  - Fan speed control reduces acoustic noise at low temperature
- Open VPX REDI designed to the latest ANSI/VITA 46.0, VITA 46.3-VDSTU, VITA 46.4-VDSTU, VITA 46.6-VDSTU, VITA 46.7-VDSTU, VITA 46.8-VDSTU, ANSI/VITA 46.10, ANSI/VITA 48.0, ANSI/VITA 48.1, ANSI/VITA 65, and VITA 68 OpenVPX specifications
- Supports 3U 12-slot 1" pitch backplane with rear transition module support
- 12-slot 3U Open VPX backplanes available
- Power supply configurations available for OpenVPX 12V-centric and 5V-centric module sets
- NEW! This chassis is now available with our new Gen-3 backplanes rated for 10.3 Gbaud!

OVERVIEW

The RME9XC rackmount enclosure is a 9U high OpenVPX™ forced air-cooled development chassis meeting the latest ANSI/VITA specifications. The RME9XC provides cooling for up to 75W per slot. This enclosure supports up to 12 slots of 3U 1" pitch payload cards and rear transition modules. It supports OpenVPX backplanes with high-speed switch fabric support for up to 10.3 Gbaud. 2600 watt power supply configurations are available for both 12V and 5V.

This chassis family is part of the industry-leading Atrenne's product line of high performance chassis and backplanes.

PART NUMBER

AIR8-D3AV - FRONT SLOT AIR BLOCKER (3U)

Cooling air will take the path of least resistance. In order to ensure adequate cooling, we recommend that Air Blockers be installed in all unused module slots. This ensures that the cooling air flows through the installed modules rather then bypassing the installed modules into empty slots or escaping through open faceplates. This is critical for high power modules to avoid over heating, and just installing a blank faceplate in unused slots is not sufficient to ensure adequate cooling.

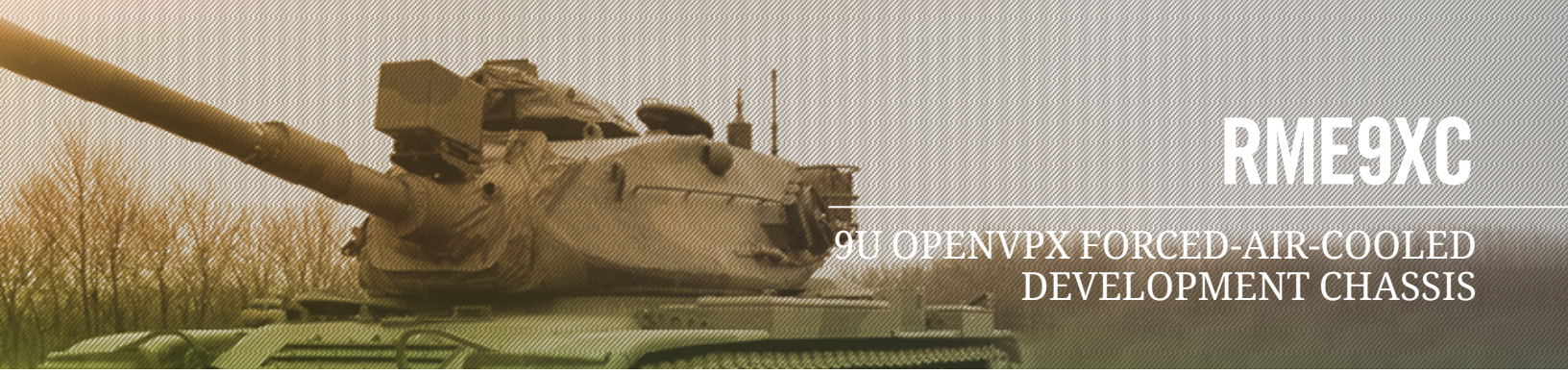

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TABLE 1: SPECIFICATIONS

PHYSICAL	
Width	18.96" (rack flanges)
Height	15.69" (9U)
Depth	19.53"
Weight	77 lbs
CONSTRUCTION	
Top & Bottom	0.063" thick aluminum
Side Panels	0.125" thick aluminum
Card Guides (RTM)	Molded plastic, Noryl N190X black
Tapped Strips	Carbon steel bar stock with zinc plating and supplementary chromate treatment
ESD Ground Clip	Beryllium copper, alloy C17400, 1/2 HT, with bright tin plating/MIL-T-10727
Power Supply (Per ANSI/VITA 65 OpenVPX 10 slot 3U Development Chassis Guidance)	• 12V- Centric 1150W • +12V/VS1 @ 62.5A • +5V/VS3 @ 30A • +3.3V/VS2 @ 22.5A • +3.3VAUX @ 16A • +12VAUX @ 5A • -12VAUX @ 5A • 5V- Centric 1150W • +12V/VS1 @ 12.5A • +5V/VS3 @ 150A • +3.3V/VS2 @ 22.5A • +3.3VAUX @ 16A • +12VAUX @ 5A • -12VAUX @ 5A
Fan Tray	x3 high performance 119 mm fans
ENVIRONMENTAL	
Operating Temp.	0 to 40°C
Storage Temp.	-20 to +70°C
Altitude	0 to 20 kft MSL with derating above 5 kft
Humidity	0 to 95% non condensing; conformal coating not included
Cooling	> 18 CFM per slot per VITA 65
Safety	Designed to meet UL60950; CSA 22.2 #234; TÜV EN60950
EMC	Designed to meet FCC Part 15, Subpart J, Class A; CISPR 22, Class A
POWER/ELECTRICAL	
AC Input	110 VAC 20 A inlet (220 VAC for full power)
Backplane Connectors	MultiGig RT-2 per ANSI/VITA 48.1
Connector Pitch	1.0" per ANSI/VITA 48.1
Transmission Rate	up to 10.3 Gbaud per ANSI/VITA 65 and VITA 68

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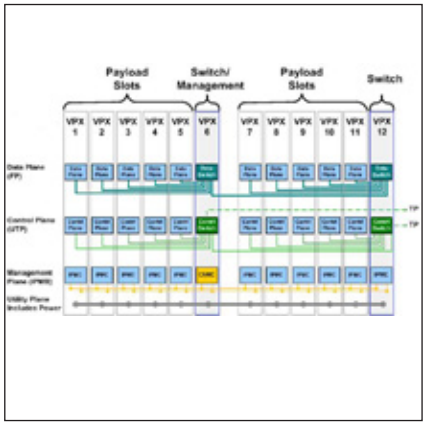
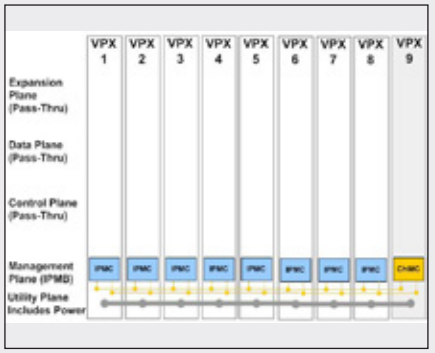
TABLE 2: CHASSIS AND POWER SUPPLY CONFIGURATION OPTIONS

CONFIGURATIONS	BACKPLANE	POWER SUPPLY	OPENVPX PROFILE DIAGRAM
RME9XC-1BOVP12C1	3U VPX 12-slot OpenVPX BKP3-CEN12-15.2.6-3 6.25 Gbaud	2600W 12V-centric 30 A/220VAC	024-901-12-CEN1-01 Gen-2 6.25 Gbaud 
RME9XC-1COPV12C1		2600W 5V-centric 30 A/220VAC	
RME9XC-1BOVP09X1	3U VPX 9-slot OpenVPX Pass-thru 10.3 Gbaud - NEW!	2600W 12V-centric 30 A/220VAC	024-901-09-X1G3-01 - Pass-thru Gen-3 10.3 Gbaud 
RME9XC-1COVP09X1		2600W 5V-centric 30 A/220VAC	

Note: Consult factory for other configuration

WARRANTY

This product has a one year warranty.

CONTACT INFORMATION

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