Atrenne
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COOL-XC3

HIGH POWERED AIR-COOLED PORTABLE TOWER ENCLOSURE

FEATURES AND BENEFITS

- High performance development chassis
- Supports 3U backplanes OpenVPX™, VPX REDI, VPX, CompactPCI® (cPCI) and VME
- VPX REDI designed to the latest ANSI/VITA 46.0, VITA 46.3, ANSI/VITA 46.10, VITA 48.0, VITA 48.1 and OpenVPX specifications
- 3U x 160 mm card cage with seven 1.0" pitch positions per VITA 48.1 REDI or nine 0.8" pitch positions per IEEE 1101.10
- 3U x 80 mm Rear Transition Modules (RTMs) per ANSI/VITA 46.10 (for VPX) and IEEE 1101.11
- Pac-2000® modular design
- Advanced cooling design: Cooling for >75W per slot per OpenVPX
- Up to 900W embedded power supply
- High performance 166 CFM fan provides >13 CFM per slot
- ATX power supply version: 102 CFM fan provides >13 CFM per slot
- Parented CoolSlot® card guides improve airflow distribution across the cards
- Airflow: lower front to upper rear
- x2 rear mounted power connectors for external peripherals
- Front panel power LED indicators and system reset
- Rear panel AC power switch, ESD Jack
- Fan speed control (not available in the ATX version)
- NEW! This chassis is now available with our new Gen-3 backplanes rated for 10.3 Gbaud!

The COOL-XC3 chassis is a 6-slot, 3U, VPX, forced-air portable tower chassis ideal for lab development. Developers may choose from Atrenne's product line of 3U, 6-slot backplanes, including variants supporting Gen-3 10 Gbaud. An off-the-shelf pass-through backplane provides quick customization for the lab environment, enabling the application developer to cable any desired topology. Atrenne is also able to design custom backplanes per the application requirement.

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

TABLE 1: TECHNOLOGY OVERVIEW

PHYSICAL	
Width	8.38"
Height	18.02" + handle & feet
Depth	14.0"
Weight	25 lbs
CONSTRUCTION	
Extrusions	6063-T6 aluminum, precision grade with clear iridite (conductive) plating
Sideplates	0.090" Thick aluminum, 5052-H32 with clear iridite (conductive) plating
Card Guides (RTM)	Molded plastic, Noryl N190X black (red for cPCI system slot), UL94-V0
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
ENVIRONMENTAL	
Temperature (system level)	Operating: 0 to +30°C (at 0 to 5 kft)
Flammability Rating	UL94-V0
Safety Agencies	Designed to meet UL60950; CSA 22.2 #234; TÜV EN60950
Earthing	ESD Ground Clip designed to comply with the earthing requirements of IEEE 1101.11 Section 15, IEC 60950 Section 2
EMC	Designed to meet FCC Part 15, Subpart J, Class A; CISPR 22, Class A: conducted portion only

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TABLE 1: TECHNOLOGY OVERVIEW (continued from previous page)

POWER	
AC Input	110/220 VAC 10A 110/220VAC inlet, 110V line cord provided RFI line filter and circuit breaker

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 overheating, and just installing a blank faceplate in unused slots is not sufficient to ensure adequate cooling.

TABLE 2: CHASSIS AND POWER SUPPLY CONFIGURATION OPTIONS (Continued on next page)

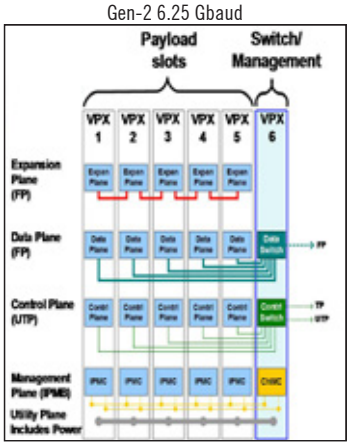
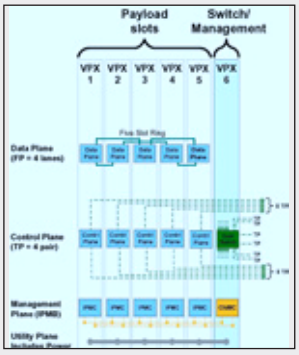
CONFIGURATIONS	BACKPLANE	POWER SUPPLY	OPENVPX PROFILE DIAGRAM
COOL-XC3-0VP06C1AB	3U VPX 6-slot OpenVPX BKP3-CEN06-15.2.2-3 6.25 Gbaud	800W 12V-centric	024-901-06-CEN1-01 Gen-2 6.25 Gbaud 
COOL-XC3-0VP06C1AC		900W 5V-centric	
COOL-XC3-0VP06C1AD		ATX 500W	
COOL-XC3-0VP06D1AB	3U VPX 6-slot OpenVPX BKP3-DIS06-15.2.7-3 6.25 Gbaud	950W 12V-centric	024-901-06-DIS1-01 Gen-2 6.25 Gbaud 
COOL-XC3-0VP06D1AC		900W 5V-centric	
COOL-XC3-0VP06D1AD		ATX 500W	

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TABLE 2: CHASSIS AND POWER SUPPLY CONFIGURATION OPTIONS (Continued from previous page)

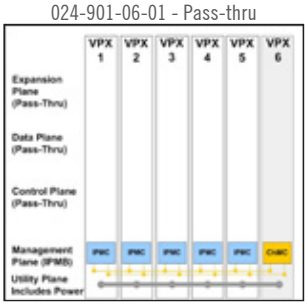
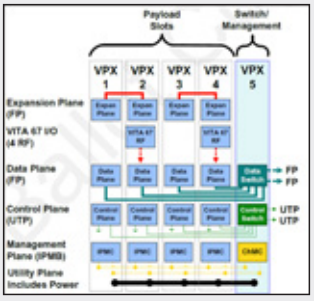
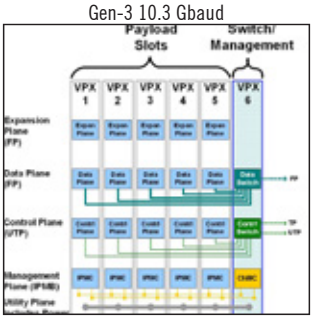
CONFIGURATIONS	BACKPLANE	POWER SUPPLY	OPENVPX PROFILE DIAGRAM
COOL-XC3-OVP06X1AB	3U VPX 6-slot OpenVPX Pass-thru 6.25Gbaud	950W 12V-centric	024-901-06-01 - Pass-thru 
COOL-XC3-OVP06X1AC		900W 5V-centric	
COOL-XC3-OVP06X1AD		ATX 500W	
COOL-XC3- OVP05C1AB	3U VPX 5-slot OpenVPX BKP3-CEN05-15.3.3-3 2 RF VITA 67.1 payload slots 6.25 Gbaud	950W 12V-centric	024-901-05-CEN1-01 Gen-2 6.25 Gbaud 
COOL-XC3-OVP05C1AC		900W 5V-centric	
COOL-XC3-OVP05C1AD		ATX 500W	
COOL-XC3-OVP6C23AB	3U VPX 6-slot OpenVPX BKP3-CEN06-15.2.18-4 10.3 Gbaud - NEW!	950W 12V-centric	024-901-06-C2G3-01 Gen-3 10.3 Gbaud 
COOL-XC3-OVP6C23AC		900W 5V-centric	
COOL-XC3-OVP6C23AD		ATX 500w	

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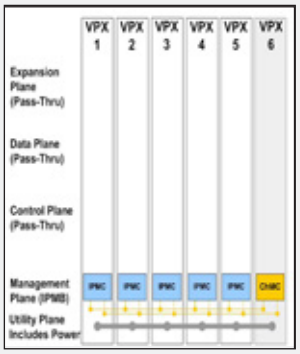
TABLE 2: CHASSIS AND POWER SUPPLY CONFIGURATION OPTIONS (Continued from previous page)

COOL-XC3-OVP6X13AB	3U VPX 6-slot OpenVPX Pass-thru 10.3 Gbaud - NEW!	950W 12V-centric	024-901-06-X1G3-01 - Pass-thru Gen-3 10.3 Gbaud 
COOL-XC3-OVP6X13AC		900W 5V-centric	
COOL-XC3-OVP6X13AD		ATX 500W	
COOL-VLN08AA	3U VME 8-slot	600W	
COOL-XC3-CL605AA	3U cPCI 5-slot 32-bit 66MHz	600W	

Notes:
1. Consult factory for other configuration
2. ATX power supply versions do not comply with VITA 65 airflow requirements nor ANSI/VITA 46.0/VME power supply voltage tolerance and ripple/noise requirements

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TABLE 3: ORDERING INFORMATION

PART NUMBER: COOL-XC3-			XXX	XXXX	X	X
BUS ARCHITECTURE						
(CL3) = cPCI, left hand system slot, 3.3V V(I/O), 32-bit, 33MHz			XXX			
(CL5) = cPCI, left hand system slot, 5V V(I/O), 32-bit, 33MHz						
(CL6) = cPCI, left hand system slot, 3.3V V(I/O), 32-bit, 66MHz						
(VPX) = VPX 0.8", slot pitch, daisy chain fabric topology per ANSI/VITA 46.0, VITA 46.3, VITA 46.4, VITA 46.9, VITA 46.10						
(OVP) = Open VPX, VPX REDI 1.0" slot pitch per ANSI/VITA 48.0, ANSI/VITA 48.1, ANSI/VITA 46.0, VITA 46.3, VITA 46.4, VITA 46.9, VITA 46.10, VITA 68						
(VLN) = VME J1						
BACKPLANE						
(03, 08) = VME J1				XXXX		
(03, 05) = cPCI						
(06C1) = OpenVPX 1.0" pitch, BKP3-CEN06-15.2.2-3, 6-slot central switch, 5 payload slots, 1 switch slot, 6.25 Gbaud						
(06D1) = OpenVPX 1.0" pitch, BKP3-DIS06-15.2.7-3, 6-slot, 5 payload slots daisy chain data fabric, 1 uncommitted control switch slot, 6.25 Gbaud						
(06X1) = OpenVPX 1.0" pitch, 6-slot, no data plane, control plane, or expansion plane fabric connectivity, all fabric signals pass through to RTM connectors for user, 6.25 Gbaud						
(05C1) = OpenVPX 1.0" pitch, BKP3-CEN05-15.3.3-3, 5-slot, 2 standard payload slots, 2 RF VITA 67.1 payload slots, 1 control switch slot, star fabric topology, 6.25 Gbaud						
(6C23) = OpenVPX 1.0" pitch, BKP3-CEN06-15.2.18-4, 6-slot, 5 payload slots, 1 data and control switch slot, star fabric topology, Gen-3, 10.3 Gbaud - NEW!						
(6X13) = OpenVPX 1.0" pitch, 6-slot, no data plane, control plane, or expansion plane fabric connectivity, all fabric signals pass through to RTM connectors for user, Gen-3, 10.3 Gbaud - NEW!						
INPUT POWER						
(A) = AC 115-220 Auto-ranging with US 110V cordset (consult Atrenne Computing Solutions applications for non-US power connections)					X	
POWER SUPPLY						
(A) = Smart 600W only for 3U cPCI/VME	+3.3V @ 35A +5V @ 60A	+/-12V @ 4A +24 V (fans) @ 4A				
(B) = Smart 900W for 3U 12V-centric VPX	VS1: +12V @ 34A VS2: +3.3V @ 35A VS3: +5V @ 35A	+3.3V_AUX @ 10A +/-12V_AUX @ 4A +24V (fans) @ 4A				
(C) = Smart 950W for 3U 5V-centric VPX	VS1: +12V @ 17A VS2: +3.3V @ 35A VS3: +5V @ 70A	+3.3V_AUX @ 10A +/-12V_AUX @ 4A +24V (fans) @ 4A				X
(D) = ATX 500W	VS1: +12V @ 18A VS2: +3.3V @ 30A (also powers 3.3 V_AUX) VS3: +5V @ 30A (220W max total for 3.3V and 5V)	+12V_AUX @ 15A -12V_AUX @ 0.8A +12V (fans) @ 15A				

Notes:
1. ATX power supply versions do not comply with VITA 65 airflow requirements nor ANSI/VITA 46.0/VME power supply voltage tolerance and ripple/noise requirements

WARRANTY

This product has a one year warranty.

CONTACT INFORMATION

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