



FEATURES AND BENEFITS

- High performance development chassis
- Advanced cooling design: Cooling for >150W per slot per OpenVPX
- Supports 6U backplanes OpenVPX™, VPX REDI™, VPX™, VXS, CompactPCI® (cPCI), VME and VME64x
- VPX REDI designed to the latest ANSI/VITA 46.0, VITA 46.3, ANSI/VITA 46.10, VITA 48.0, VITA 48.1 and VITA 65 OpenVPX specifications
- Convenient top carrying handle
- 6U x 160 mm card cage with x7 1.0" pitch positions per VITA 48.1 VPX REDI or x9 0.8" pitch positions per IEEE 1101.10
- 6U x 80 mm Rear Transition Modules (RTMs) per ANSI/VITA 46.10 (for VPX) and IEEE 1101.11
- Pac-2000® modular design
- Selection of power supplies up to 1200W
- High performance 166 CFM fan provides >19 CFM per slot
- ATX power supply version: 102 CFM fan provides >13 CFM per slot
- Patented 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!

COOL-XC6

HIGH POWERED AIR-COOLED PORTABLE TOWER ENCLOSURE



The COOL-XC6 chassis is a 6-slot, 6U, VPX, forced-air portable tower chassis ideal for lab development. Developers may choose from Atrenne's product line of 6U, 6-slot, VPX backplanes, including variants supporting Gen-3 10 Gbaud, or even a custom backplane. A pass-through backplane option is also available, enabling the application developer to cable any desired topology.

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

TABLE 1: TECHNOLOGY OVERVIEW

PHYSICAL	
Width	8.38" (212.852mm)
Height	23.27" (591.025 mm) + handle & feet
Depth	14.0" (355.6 mm)
Weight	30 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
POWER	
AC Input	110/220 VAC 10A 110/220VAC inlet, 110V line cord provided RFI line filter and circuit breaker

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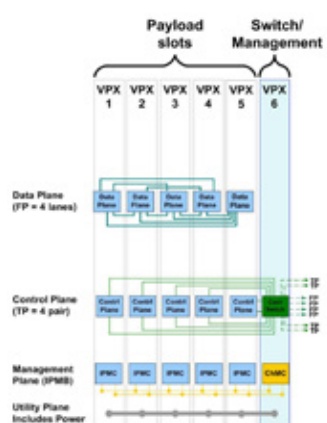
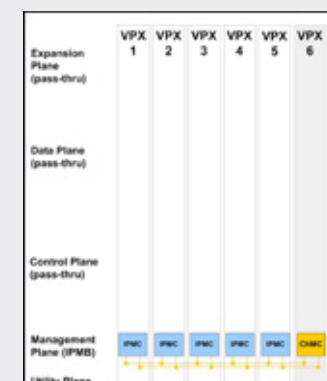
TABLE 2: CHASSIS AND POWER SUPPLY CONFIGURATION OPTIONS (Continued on next page)

CONFIGURATIONS	BACKPLANE	POWER SUPPLY	OPENVPX PROFILE DIAGRAM
COOL-XC6-OVP05C1AB		1150W 12V-centric	<p>024-900-05-CEN1-01 Gen-2 6.25 Gbaud</p>
COOL--XC6-OVP05C1AC	6U VPX 5-slot OpenVPX BKP-CEN05-11.2.5-3 Central switch topology with 4x fat pipe data plane 2x Ultra thin pipe control plane Dual fat pipe expansion plane	1200W 5V-centric	
COOL-XC6-OVP05C1AD		ATX 500W	
COOL-XC6-OVP05C1AB		1150W 12V-centric	<p>024-900-05-CEN1-01 Gen-2 6.25 Gbaud</p>
COOL--XC6-OVP05C1AC	6U VPX 5-slot OpenVPX BKP-CEN05-11.2.5-3 Central switch topology with 4x fat pipe data plane 2x Ultra thin pipe control plane Dual fat pipe expansion plane	1200W 5V-centric	
COOL-XC6-OVP05C1AD		ATX 500W	
COOL-XC6-OVP06AB		1150W 12V-centric	<p>024-900-06-01 Gen-1 3.125 Gbaud</p>
COOL-XC6-OVP06AC	6U VPX 6-slot OpenVPX BKP-DIS06-11.2.15-1 Distributed topology with 5-slot full mesh fat pipe data plane No control plane No expansion plane	1200W 5V-centric	
COOL-XC6-OVP06AD		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-XC6-OVP06D1AB	6U VPX 6-slot OpenVPX BKP6-DIS-11.2.10.3	1150W 12V-centric	<p>024-900-06-DIS1-1 Gen-2 6.25 Gbaud</p> 
COOL-XC6-OVP06D1AC		1200W 5V-centric	
COOL-XC6-OVP06D1AD		ATX 500W	
COOL-XC6-OVP06X1AB	6U VPX 6-slot OpenVPX Pass-thru	1150W 12V-centric	<p>024-900-06-X1-01 Pass-thru</p> 



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

CONFIGURATIONS	BACKPLANE	POWER SUPPLY	OPENVPX PROFILE DIAGRAM
COOL-XC6-OVP6C23AB	6U VPX 6-slot OpenVPX BKP6-CEN06-11.2.x-4 10.3 Gbaud - NEW! Central Switch topology with 4x fat pipe data plane 2x ultra thin control plane Dual fat pipe expansion plane	1150W 12V-centric	<p>024-900-06-C2G3-01</p>
COOL-XC6-OVP6C33AB	VPX 6-slot OpenVPX BKP6-CEN06-11.2.x-4 10.3 Gbaud - NEW! Central Switch topology with 2x fat pipe data plane 2x ultra thin pipe control plane No expansion plane	1150W 12V-centric	<p>024-900-06-C3G3-01</p>
COOL-XC6-VX708AA	6U VME64x 8-slot	750W	
COOL-XC6-OVP6X13AB	6U VPX 6-slot OpenVPX Pass-thru 10.3 Gbaud - NEW!	1150W 12V-centric	<p>024-900-06-X1G3-01 - Pass-thru</p>

Notes:
 1. Consult factory for other configurations
 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-XC6-	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						
(VX7) = VITA 1.7 high current VME64x						
(VXR) = VX3 sRIO						
(OVP) = OpenVPX, 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 65						
BACKPLANE						
(06) = VME64x, 8 slots						
(08) = VITA 1.7 high current VME64x, 8 slots						
(08) = VXS			XXXX			
(03, 05) = cPCI						
(06) = OpenVPX 1.0" pitch, BKP6-DIS06-11.2.15-1, 6-slotS, 5 payload slots mesh data fabric, 1 uncommitted switch slot w/all signals to RTM, 3.125 Gbaud						
(05C1) = OpenVPX 1.0" pitch, BKP6-CEN05-11.2.5-3, 5-slots, 4 payload slots, 1 switch slot, 6.25 Gbaud						
(06D1) = OpenVPX 1.0" pitch, BKP6-DIS06-11.2.10-3, 6-slots, 5 payload slots with mesh data fabric, 1 control switch, 6.25 Gbaud						
(06C1) = OpenVPX 1.0" pitch, BKP6-CEN06-11.2.8-3, 6-slots, 5 payload slots, 1 data switch slot, star fabric topology, 6.25 Gbaud						
(06X1) = OpenVPX 1.0" pitch, no data plane, control plane, or expansion plane fabric connectivity, all fabric signals pass through to RTM connectors for user.						
(6C23) = OpenVPX 1.0" pitch, BKP6-CEN06-11.2.x-4, 6-slots, 5 payload slots, 1 data and control switch slot, star fabric topology, Gen-3, 10.3 Gbaud - NEW!						
(6C33) = OpenVPX 1.0" pitch, BKP6-CEN06-11.2.x-4, 6 slots, 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 applications for non-US power connections)					X	
POWER SUPPLY						
(A) = Smart 750W only for 6U cPCI/VME/VXS	+3.3V @ 60A +5V @ 60A	+/-12V @ 8A +24 V (fans) @ 4A				
(B) = Smart 1150W for 12V-centric VPX	VS1/VS2: +12V @ 62.5A VS3: +5V @ 35A	+3.3VAUX @ 10A +/-12VAUX @ 4A +24V (fans) @ 4A				
(C) = Smart 1200W for 5V-centric VPX	VS1/VS2: +12V @ 17A VS3: +5V @ 150A	+3.3VAUX @ 10A +/-12VAUX @ 4A +24V (fans) @ 4A				X
(D) = ATX 500W	VS1/VS2: +12V @ 18A VS3: +5V @ 30A (220W max total for 3.3V and 5V)	+3.3VAUX @ 30A +12VAUX @ 15A -12VAUX @ 0.8A +12V (fans) @ 15A				





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PART NUMBER

AIR8-D6AV - FRONT SLOT AIR BLOCKER (6U)

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 than 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.

WARRANTY

This product has a one year warranty.

CONTACT INFORMATION

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