

FEATURES AND BENEFITS

- High performance development chassis
- Cooling for up to 150W per slot
- Supports 6U backplanes OpenVPX™, VPX REDI™ and VPX™
- VPX REDI designed to the latest ANSI/VITA 46.0, VITA 46.3, ANSI/VITA 46.10, VITA 48.0, VITA 48.2 and VITA 65 OpenVPX specifications
- Convenient top carrying handle
- 6U x 160 mm card cage with x6 1.0" pitch positions per VITA 48.2 VPX REDI
- 6U x 80 mm Rear Transition Modules (RTMs) per ANSI/VITA 46.10 (for VPX) and IEEE 1101.11
- Side access cover for debug
- Advanced cooling design: Cooling for >150W per slot per OpenVPX
- Selection of power supplies up to 1200W
- High performance fans provide a <55°C chassis conduction rail temperature at 30°C and 150W per slot per ANSI/VITA 65 OpenVPX standard
- Airflow: side to side
- 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
- NEW! This chassis is now available with our new Gen-3 backplanes rated for 10.3 Gbaud!

COOL-CC6

HIGH POWERED CONDUCTION-COOLED PORTABLE TOWER ENCLOSURE



The COOL-CC6 chassis is a 6-slot, 6U, VPX, forced-air, conduction-cooled portable tower chassis ideal for lab development. It can support several Atrenne 6U 6-slot backplanes, including variants supporting Gen-3 10 Gbaud, or even customized backplanes. A pass-through backplane is also available, enabling the application developer to cable any desired topology.

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

TABLE 1: TECHNOLOGY OVERVIEW

PHYSICAL	
Width	8.38" (212.852 mm)
Height	23.27" (591.058 mm) + handle & feet
Depth	14.0" (355.6 mm)
Weight	42 lbs
CONSTRUCTION	
Extrusions	6063-T6 aluminum, precision grade with clear iridite (conductive) plating
Sideplates	0.120" 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-CC6-OVP05C1AF	6U VPX 5-slot OpenVPX BKP6-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	1150W 12 V-centric	<p>024-900-05-CEN1-01 - Gen-2 6.25 Gbaud</p>
COOL-CC6-OVP05C1AG		1200W 5 V-centric	
COOL-CC6-OVP06AF	6U VPX 6-slot OpenVPX BKP6-DIS06-11.2.15-1 Distributed topology with 5-slot full mesh fat pipe data plane No control plane No expansion plane	1150W 12 V-centric	<p>024-900-06-01 - Gen-1 3.125 Gbaud</p>
COOL-CC6-OVP06AG		1200W 5 V-centric	
COOL-CC6-OVP06D1AF	6U VPX 6-slot OpenVPX BKP6-DIS06-11.2.10-3 Distributed topology with 5-slot full mesh fat pipe data plane 2x thin pipe control plane No expansion plane	1150W 12 V-centric	<p>024-900-06-DIS1-01 - Gen-2 6.25 Gbaud</p>
COOL-CC6-OVP06D1AG		1200W 5 V-centric	

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

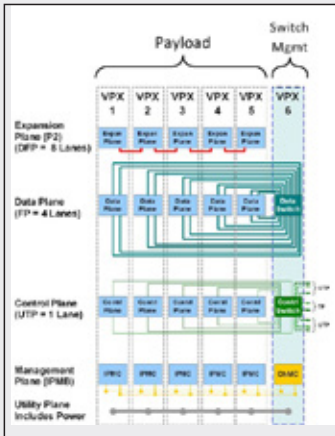
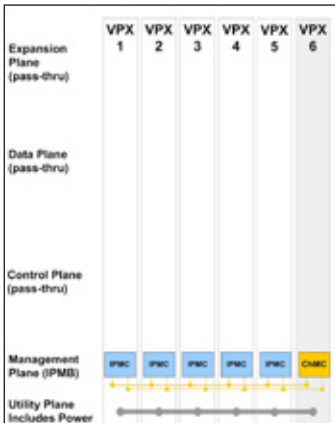
CONFIGURATIONS	BACKPLANE	POWER SUPPLY	OPENVPX PROFILE DIAGRAM
COOL-CC6-OVP06X1AF	6U VPX 6-slot OpenVPX Pass-thru	1150W 12 V-centric	<p>024-900-06-X1-01-Pass-Thru</p>
COOL-CC6-OVP6C33AF	6U VPX 6-slot OpenVPX BKP6-CEN06-11.2.x-4 10.3 GBaud - NEW! Central switch topology with 2x fat pipe data plane 2x ultra thin pipe control plane No expansion plane	1150W 12 V-centric	<p>024-900-06-C3G3-01</p>



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

COOL-CC6-OVP6C23AF	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 pipe control plane Dual fat pipe expansion plane	1150W 12 V-centric	024-900-06-C2G3-01 
COOL-CC6-OVP6X13AF	6U VPX 6-slot OpenVPX Pass-thru 10.3 Gbaud - NEW!	1150W 12 V-centric	024-900-06-X1G3-01 - Pass-Thru 

Note: Consult factory for other configurations.

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TABLE 3: ORDERING INFORMATION

PART NUMBER: COOL-CC6			XXX	XXXX	X	X
BUS ARCHITECTURE						
(OVP) = OpenVPX, VPX REDI 1.0" slot pitch per ANSI/VITA 48.0, ANSI/VITA 48.2, ANSI/VITA 46.0, VITA 46.3, VITA 46.4, VITA 46.9, VITA 46.10, VITA 65			XXX			
BACKPLANE						
(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			XXXX			
(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						
(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						
(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 mesh data fabric, 1 control switch slot, 6.25 Gbaud						
(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						
(F) = 1200W for 12 V-centric VPX	VS1/VS2: +12V @ 66.8A VS3: +5V @ 30A		+3.3VAUX @ 15A +/-12VAUX @ 4.2A +24V (fans) @ 4.2A			X
(G) = 1100W for 5 V-centric VPX	VS1/VS2: +12V @ 16.7A VS3: +5V @ 120A		+3.3VAUX @ 20A +/-12VAUX @ 4.2A +24V (fans) @ 8.3A			

WARRANTY

This product has a one year warranty.

CONTACT INFORMATION

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