



COOL-CC3

HIGH POWERED CONDUCTION-COOLED PORTABLE TOWER ENCLOSURE

FEATURES AND BENEFITS

- High performance development chassis
- Supports 3U 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 OpenVPX specifications
- 3U x 160 mm card cage with seven 1.0" pitch positions per VITA 48.2 REDI
- 3U x 80 mm Rear Transition Modules (RTMs) per ANSI/VITA 46.10 (for VPX) and IEEE 1101.11
- Advanced cooling design: Cooling for >75W 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 75W 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!



The COOL-CC3 chassis is a 6-slot, 3U, VPX, forced-air, conduction-cooled portable tower chassis ideal for lab development. It can support several Atrenne 3U backplanes, including variants supporting Gen-3 10 Gbaud, or a custom backplane. 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's 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	37 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

CONFIGURATIONS	BACKPLANE	POWER SUPPLY	OPENVPX PROFILE DIAGRAM
COOL-CC3-OVP06C1AF	3U VPX 6-slot OpenVPX BKP3-CEN06-15.2.2-3 6.25 Gbaud	800W 12V-centric	<p>024-901-06-CEN1-01 Gen-2 6.25 Gbaud</p>
COOL-CC3-OVP06C1AG		1200W 5V-centric	
COOL-CC3-OVP6X13AF	3U VPX 6-slot OpenVPX Pass-thru 10.3 Gbaud - NEW!	800W 12V-centric	<p>024-901-06-X1G3-01 - Pass-thru Gen-3 10.3 Gbaud</p>
COOL-CC3-OVP6X13AG		1200W 5V-centric	
COOL-CC3-OVP06D1AF	3U VPX 6-slot OpenVPX BKP3-DIS06-15.2.7-3 6.25 Gbaud	800W 12V-centric	<p>024-901-06-DIS1-01 Gen-2 6.25 Gbaud</p>
COOL-CC3-OVP06D1AG		1200W 5V-centric	

Note: Consult factory for other configurations



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TABLE 2: CHASSIS AND POWER SUPPLY CONFIGURATION OPTIONS (CONTINUED FROM PREVIOUS PAGE)

CONFIGURATIONS	BACKPLANE	POWER SUPPLY	OPENVPX PROFILE DIAGRAM
COOL-CC3-OVP06X1AF	3U VPX 6-slot OpenVPX Pass-thru 6.25 Gbaud	800W 12V-centric	<p>024-901-06-01 - Pass-thru</p>
COOL-CC3-OVP06X1AG		1200W 5V-centric	
COOL-CC3-OVP05C1AF	3U VPX 5-slot OpenVPX BKP3-CEN05-15.3.3-3 2 RF VITA 67.1 payload slots 6.25 Gbaud	800W 12V-centric	<p>024-901-05-CEN1-01 Gen-2 6.25 Gbaud</p>
COOL-CC3-OVP05C1AG		1200W 5V-centric	
COOL-CC3-OVP6C23AF	3U VPX 6-slot OpenVPX BKP3-CEN06-15.2.18-4 10.3 Gbaud - NEW!	800W 12V-centric	<p>024-901-06-C2G3-01 Gen-3 10.3 Gbaud</p>
COOL-CC3-OVP6C23AG		1200W 5V-centric	

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TABLE 3: ORDERING INFORMATION

PART NUMBER: COOL-CC3-		XXX	XXXX	X	X
BUS ARCHITECTURE					
(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 68		XXX			
BACKPLANE					
(05C1) = OpenVPX 1.0" pitch, BKP3-CEN05-15.3.3-3, 5-slot, 2 standard payload sots, 2 RF VITA 67.1 payload slots, 1 control switch slot, star fabric topology, 6.25 Gbaud		XXXX			
(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					
(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					
(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 applications for non-US power connections)				X	
POWER SUPPLY					
(F) = 800W for 3U 12V-centric VPX	VS1: +12V @ 33.4A VS2: +3.3V @ 15A VS3: +5V @ 20A	+3.3V_AUX @ 10A +/-12V_AUX @ 4.2A +24V (fans) @ 6.3A			X
(G) = 1200W for 3U 5V-centric VPX	VS1: +12V @ 16.7A VS2: +3.3V @ 20A VS3: +5V @ 120A	+3.3V_AUX @ 10A +/-12V_AUX @ 4.2A +24V (fans) @ 8.3A			

WARRANTY

This product has a one year warranty.

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