

BENEFITS

- High performance rackmount/desktop development chassis
- Advanced side-to-side cooling design for greater than 150W per slot
- Supports 6U backplanes OpenVPX, VPX-REDI, VPX
- Available with Gen-3, 10 Gbaud backplanes

DT-XC

HIGH-POWER EXTREME COOLING OPENVPX RACKMOUNT/DESKTOP CHASSIS



The DT-XC is a horizontally-oriented, rackmount/desktop chassis for high-powered, 6U, air-cooled VPX modules. Horizontal air-flow cools over 150W per slot to support state-of-the-art processor boards.

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

FEATURES

- High performance rackmount/desktop development chassis
- Side-to-side cooling for up to 150W per slot
- Supports 6U backplanes OpenVPX™, VPX-REDI™, VPX™
- VPX REDI designed to the latest ANSI/VITA 48.0, ANSI/VITA 48.1, ANSI/VITA 46.0, ANSI/VITA 46.10, ANSI/VITA 46.3, ANSI/VITA 46.4, ANSI/VITA 46.6, ANSI/VITA 46.7, VITA 46.8 VDSTU, VITA 68 and ANSI/VITA 65 OpenVPX standards
- 6U x 160 mm card cage with x6 1.0" pitch positions per VITA 48.1 REDI
- 6U x 80 mm Rear Transition Modules (RTMs) per ANSI/VITA 46.10 (for VPX) and IEE 1101.11
- Pac-2000® modular design
- Advanced cooling design: Cooling for >150W per slot per OpenVPX
- High performance fans provide >20 CFM per slot with high pressure modules per OpenVPX
- Fan monitor speed control
- 1900W power supply supports a wide range of 12V and 5V powered VPX cards
- DC Power:
 - +12V @ 75A (VITA 46 VS1 and VS2 supply)
 - +5V @ 100A (VITA 46 VS3 supply)
 - +3.3V @ 40A (VITA 46 3.3 VAUX)

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- +12V @ 17A (VITA 46 +12 VAUX)
- -12V @ 17A (VITA 46 -12 VAUX)
- Front panel DC-enable power switch, system reset, ESD jack and power LED indicators
- Patented CoolSlot® card guides improve airflow distribution across the cards
- NEW! Now supplied with separate rackmount flanges (can also be used in desktop application)

TABLE 1: TECHNOLOGY OVERVIEW

PHYSICAL	
Width	17.18"
Height	10.47" 6U EIA Rackmount
Depth	16.00"
Weight	36 lbs
CONSTRUCTION	
Extrusions	6063-T6 Aluminum, precision grade with clear iridite plating
Covers	.090" thick aluminum, 5052-H32 with clear iridite plating
Card Guides	Molded plastic, Noryl N190X black, UL94-V0
POWER	
AC Input	<ul style="list-style-type: none"> • 20 A AC line input • AC Input: 110/220 VAC • x2 line cords provided: • 132-074; 115 VAC, 20 A • 132-075; 220 VAC, 15 A • Rear line voltage inlet connector, RFI line filter, rear circuit breaker
ENVIRONMENTAL	
Temperature	Operating: 0 to 40 °C
Safety Agencies	Designed to meet UL60950; CSA 22.2 #234; TÜV EN60950
Flammability Rating	UL94-V0
Earthing	ESD ground clip designed to comply with the earthing requirements of IEEE 1101.11 Section 15, IEC60950 Section 2 Power Input

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

CONFIGURATIONS	BACKPLANE	POWER SUPPLY	OPENVPX PROFILE DIAGRAM
DT-XC-A120VP05C1	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 Gen-2 6.25 Gbaud	1900W	<p>024-900-05-CEN1-01</p> <p>The diagram shows a central switch topology with 4x fat pipe data plane and 2x ultra thin pipe control plane. It details 5 VPX slots (VPX 1-5) and various internal planes like Expansion Plane, Data Plane, Control Plane, Management Plane, and Utility Plane.</p>

HIGH-POWER EXTREME COOLING OPENVPX RACKMOUNT/DESKTOP CHASSIS

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

CONFIGURATIONS	BACKPLANE	POWER SUPPLY	OPENVPX PROFILE DIAGRAM
<p>DT-XC-A12VPX06</p>	<p>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 Gen-1 3.125 Gbaud</p>	<p>1900W</p>	<p>024-900-06-01</p>
<p>DT-XC-A120VP06D1</p>	<p>6U VPX 6-slot OpenVPX BKP6-DIS06-11.2.10.3 Gen-2 6.25 Gbaud</p>	<p>1900W</p>	<p>024-900-06-DIS1-01</p>
<p>DT-XC-A120VP06X1</p>	<p>6U VPX 6-slot OpenVPX Pass-thru Gen-2 6.25 Gbaud</p>	<p>1900W</p>	<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
<p>DT-XC-A120VP6C2G3</p>	<p>6U VPX 6-slot OpenVPX BKP6-CEN06-11.2.25-4 10.3 GBaud - NEW! Central switch topology with 4x fat pipe data plane 2x ultra thin pipe control plane Dual fat pipe expansion plane</p>	<p>1900W</p>	<p>024-900-06-C2G3-01</p>
<p>DT-XC-A120VP6C3G3</p>	<p>VPX 6-slot OpenVPX BKP6-CEN06-11.2.23-4 10.3 GBaud - NEW! Central switch topology with 2x fat pipe data plane 2x ultra thin pipe control plane No expansion plane</p>	<p>1900W</p>	<p>024-900-06-C3G3-01</p>
<p>DT-XC-A120VP6X1G3</p>	<p>6U VPX 6-slot OpenVPX Pass-thru 10.3 GBaud - NEW!</p>	<p>1900W</p>	<p>024-900-06-X1G3-01 - Pass-thru</p>

HIGH-POWER EXTREME COOLING OPENVPX RACKMOUNT/DESKTOP CHASSIS

TABLE 3: ORDERING INFORMATION

CONFIGURATION		PART NUMBER: DT-XC	A	1	2	XXXXX
(A) = 6 slots, 1" pitch			X			
POWER SUPPLY						
(1) = 1900W	VS1/VS2: +12V @ 75A VS3: +5V @ 100A	+3.3 VAUX @ 40A +/- 12 VAUX @ 17A		X		
POWER INLET						
(2) = 20A AC INLET					X	
BACKPLANE						
(VPX06) = 6U, 6-slot VPX REDI 1" pitch (7 slots wide), 5 payload slots, mesh data fabric slots 1-5, 1 uncommitted switch slot, 3.125 Gbaud, with rear transition connectors, OpenVPX Profile BKP6-DIS06-11.2.15-1, P/N=024-900-06-01						XXXXX
(OVP05C1) = 6U, 5-slot VPX REDI 1" pitch (6 slots wide), 4 payload slots, 1 data & control switch slot, star fabric topology, 6.25 Gbaud, with rear transition connectors, OpenVPX Profile BKP6-CEN05-11.2.5-3, P/N=024-900-05-CEN1-01						
(OVP06C1) = 6U, 6-slot VPX REDI 1" pitch (7 slots wide), 5 payload slots, 1 data switch slot, star fabric topology, 6.25 Gbaud with rear transition connectors, OpenVPX Profile BKP6-CEN06-11.2.8-3, P/N=024-900-06-CEN1-01						
(OVP06D1) = 6U, 6-slot VPX REDI 1" pitch (7 slots wide), 5 payload slots, mesh data fabric slots 1-5, 1 control switch slot, 6.25 Gbaud with rear transition connectors, OpenVPX Profile BKP6-DIS06-11.2.10-3, P/N=024-900-06-DIS1-01						
(OVP06X1) = 6U, 6-slot VPX REDI 1" pitch (7 slots wide), no data plane, control plane, or expansion plane fabric connectivity, all fabric signals pass through to RTM connectors for user, 6.25 Gbaud, P/N=024-900-06-X1-01						
(OVP6C2G3) = 6U, 6-slot VPX REDI 1" pitch (7 slots wide), 5 payload slots, 1 data & control switch slot, star fabric topology, with expansion plane, Gen-3 10.3 Gbaud with rear transition connectors, OpenVPX Profile BKP6-CEN06-11.2.25-4, P/N=024-900-06-C2G3-01 - NEW!						
(OVP6C3G3) = 6U, 6-slot VPX REDI 1" pitch (7 slots wide), 5 payload slots, 1 data & control switch slot, star fabric topology, no expansion plane, Gen-3 10.3 Gbaud with rear transition connectors, OpenVPX Profile BKP6-CEN06-11.2.23-4, P/N=024-900-06-C3G3-01 - NEW!						
(OVP6X1G3) = 6U, 6-slot VPX REDI 1" pitch (7 slots wide), 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, P/N=024-900-06-X1G3-01 - NEW!						

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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