

BENEFITS

- Extreme cooling development chassis with >19 CFM of cooling air per slot
- Open sides and top support access by engineering and test personnel for debugging
- Selection of power supplies up to 900W
- Fan speed control knob allows adjustment of fan speed for lower fan acoustic noise (not available in the ATX version)
- Variety of 3U VPX backplanes including Gen-3 backplanes rated for 10.3 Gbaud



The OF-SMART3 is an open frame chassis for 3U, VPX lab development. Atrenne's family of open frame chassis provide easy access to board components for testing and debug. The high-performance fan provides 19 CFM of cooling air per slot. The OF-SMART3 is available with a choice of backplanes, including Atrenne's newest 10 Gbaud, Gen-3 backplanes.

This lab development chassis is part of Atrenne's industry-leading family of high-performance chassis and backplanes.

FEATURES

- Extreme cooling development chassis
- Supports 3U backplanes OpenVPX™, VPX REDI, VPX, CompactPCI® (cPCI), 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 VITA 65 OpenVPX specifications
- Open sides and top support access by engineering and test personnel for debugging
- Optional USB connection for remote voltage margining and current monitoring
- 3U x 160 mm card cage with x7 1.0" pitch positions per VITA 48.1 REDI or x9 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
- NEW! This chassis is now available with our new Gen-3 backplanes rated for 10.3 Gbaud!
- High performance 335 CFM fan provides >19 CFM per slot
- ATX power supply version: 252 CFM fan provides >12 CFM per slot
- Patented CoolSlot® card guides improve airflow distribution across the cards
- Fan speed control knob allows adjustment of fan speed for lower fan acoustic noise (not available in the ATX version)
- Selection of power supplies up to 900W



OF-SMART3

SMART OPEN FRAME CHASSIS

- Smart power supply control interface
- Front panel power LED indicators and system reset
- Rear panel AC power switch and ESD Jack
- x2 rear mounted power connections for external peripherals

TABLE 3: TECHNOLOGY OVERVIEW

PHYSICAL	
Width	8.58" (218.9 mm)
Height	15.43" (391.9 mm)
Depth	14.0" (355.6 mm)
Weight	30 lbs
CONSTRUCTION	
Extrusions	6063-T6 aluminum, precision grade with clear iridite plating
Sideplates	.250" thick aluminum, 5052-H32 with clear iridite plating
Card Guides	Molded plastic, Noryl N190X black, UL94-V0
ENVIRONMENTAL	
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, 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	10A 110/220 VAC inlet 110V line cord provided RFI line filter and fuse

OF-SMART3

SMART OPEN FRAME CHASSIS

TABLE 1: CHASSIS AND POWER SUPPLY CONFIGURATION OPTIONS

CONFIGURATIONS	BACKPLANE	POWER SUPPLY	OPENVPX PROFILE DIAGRAM
OF-SM3-OVP06C1AB	3U VPX 5-slot OpenVPX BKP3-CEN06-15.2.2-3 6.25 Gbaud	950W 12V-centric	<p>024-901-06-CEN1-01 Gen-2 6.25 Gbaud</p>
OF-SM3-OVP06C1AC		900W 5V-centric	
OF-SM3-OVP06C1AD		ATX 500W	
OF-SM3-OVP06D1AB	3U VPX 6-slot OpenVPX BKP3-DIS06-15.2.7-3 6.25 Gbaud	950W 12V-centric	<p>024-901-06-DIS1-01 Gen-2 6.25 Gbaud</p>
OF-SM3-OVP06D1AC		900W 5V-centric	
OF-SM3-OVP06D1AD		ATX 500W	
OF-SM3-OVP06X1AB	3U VPX 6-slot OpenVPX Pass-thru 6.25 Gbaud	950W 12V-centric	<p>024-901-06-01 - Pass-thru</p>
OF-SM3-OVP06X1AC		900W 5V-centric	
OF-SM3-OVP06X1AD		ATX 500W	

TABLE 1: CHASSIS AND POWER SUPPLY CONFIGURATION OPTIONS (continued from previous page)

CONFIGURATIONS	BACKPLANE	POWER SUPPLY	OPENVPX PROFILE DIAGRAM
OF-SM3-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	<p>024-901-05-CEN1-01 Gen-2 6.25 Gbaud</p>
OF-SM3-OVP05C1AC		900W 5V-centric	
OF-SM3-OVP05C1AD		ATX 500W	
OF-SM3-OVP6C23AB	3U VPX 6-slot OpenVPX BKP3-CEN06-15.2.18-4 10.3 Gbaud - NEW!	950W 12V-centric	<p>024-901-06-C2G3-01 Gen-3 10.3 Gbaud</p>
OF-SM3-OVP6C23AC		900W 5V-centric	
OF-SM3-OVP6C23AD		ATX 500W	
OF-SM3-OVP6X13AB	3U VPX 6-slot OpenVPX Pass-thru 10.3 Gbaud - NEW!	950W 12V-centric	<p>024-901-06-X1G3-01 - Pass-thru Gen-3 10.3 Gbaud</p>
OF-SM3-OVP6X13AC		900W 5V-centric	
OF-SM3--OVP6X13AD		ATX 500W	
OF-SM3-VLN09AA	3U VME 8-slot	600W	
OF-SM3-CL605AA	3U cPCI 5-slot 32-bit 66MHz	600W	

Notes:

- Consult factory for other configuration
- 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.

OF-SMART3

SMART OPEN FRAME CHASSIS

TABLE 2: ORDERING INFORMATION

PART NUMBER: OF-SM3-		XXX	XXXX	X	X
BUS ARCHITECTURE					
(CL3) = cPCI, left hand system slot, 3.3V V(I/O), 32-bit, 33 MHz		XXX			
(CL5) = cPCI, left hand system slot, 5V V(I/O), 32-bit, 33 MHz					
(CL6) = cPCI, left hand system slot, 3.3V V(I/O), 32-bit, 66 MHz					
(VLN) = VME					
(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					
(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 applications for non-US power connections)				X	
POWER SUPPLY					
(A) = Smart 600W for 3U Only for 3U cPCI/VME	+3.3V @ 35A +5V @ 60A +/-12V @ 4A +24V (fans) @ 4A				X
(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 900W 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				
(D) = ATX 500W	VS1: +12V @ 18A VS2: +3.3V @ 30A (also powers 3.3V_AUX) VS3: +5V @ 30A (220W max total for 3.3V and 5V) +12V_AUX @ 15A +12V (fans) @ 15A -12V_AUX @ 0.8A				

Notes:

- 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.
- +3.3V_AUX is not available for remote voltage margining and current monitoring (if required by factory).

CONTACT INFORMATION

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WARRANTY

This product has a one year warranty.

