

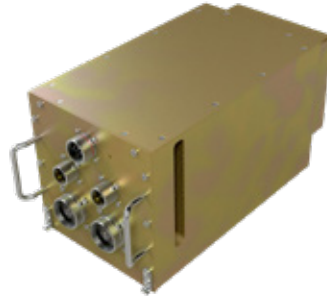
BENEFITS

- Supports development-to-deployment program lifecycle, maximizing use of COTS components for development and demonstration with upgradeability for deployment
- Ideal for IRAD projects
- Eliminates the need to procure air-cooled payload for development
- Pass-through backplane for lab development transitioning to custom backplane in deployment



D2D-34S

3/4 ATR FORCED AIR CONDUCTION-COOLED CHASSIS FOR DEVELOPMENT-TO-DEPLOYMENT



APPLICATIONS

- Military
- Aerospace
- First Responder

FEATURES

- Supports add-on “top hat” to support I/O from module and mezzanine faceplates and “bottom hat” to support I/O cabling or custom backplane connectivity using backplane RTM connectors for development and demonstration
- Supports standard 6-slot OpenVPX™ 1" pitch backplanes
 - Six (6) 3U 1.0" pitch VPX REDI™ slots per ANSI/VITA 65 and 48.2
 - Two power supply slots with optional power supply backplane
- Supports standard 7-slot CompactPCI® (cPCI) 0.8" pitch backplanes
 - Seven (7) 3U 0.8" pitch cPCI slots per ANSI/VITA 30.1
- Two power supply slots with optional power supply backplane
- Supports custom backplanes for deployed applications
- Supports standard backplanes with I/O cables using “bottom hat” for development and demonstration or custom backplane with I/O for deployment
- Designed to meet the latest OpenVPX, VPX, and VPX REDI standards including ANSI/VITA 65, 46.0, 48.2, 46.3-VDSTU, 46.4-VDSTU, 46.6-VDSTU, 46.7-VDSTU, and 68 (draft), or PICMG® 2.0, PICMG 2.1, VITA 30.1 for cPCI
- Supports internal industrial grade or MIL grade fan
- Supports Atrenne’s intelligent rugged fan controller



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- Supports internal or external power supply
 - For development: cables to external power supply
 - For demonstration: cables to internal power supply
 - For deployment: internal MIL grade power supply
 - Power supply slots support a total of 200W or 400W, 28 VDC input power supply(s) compliant to MIL-STD-704F and MIL-STD-1275B
 - Contact factory for other power supply options
- Supports Atrenne's intelligent Power & Control Module (PCM) for chassis monitoring/BIST
- Extreme cooling chassis
- Custom configurations and integration services available

SUPPORTS A DEVELOPMENT-TO-DEPLOYMENT APPROACH

The D2D chassis supports a development-to-deployment approach for reduced risk, reduced schedule, and reduced cost for our customers. This approach allows the product uses the same platform to support customers through their program lifecycle.

DEVELOP --> DEMONSTRATION --> DEPLOYMENT

This approach reduces costs and lead time for the development version (lab only) by

- Standard backplane using I/O cabling
- Chassis "bottom hat" and I/O cabling
- Connections for external power supply
- Industrial grade fans

The customer can upgrade to a demonstration version with the addition of an internal cabled power supply.

The rugged deployed version enables the customer to

- Replace a standard backplane and I/O cables with a custom backplane and I/O panel
- Remove the "bottom hat"
- Upgrade to internal MIL grade power supply that plugs into the backplane
- Upgrade to MIL grade fans



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TABLE 1: SPECIFICATIONS

PHYSICAL	
Width	10.59" (269.0 mm) for standard configurations with bottom hat 7.50" (190.5 mm) (without top or bottom hat) Add 3.09" for configurations with top hat
Height	7.62" (193.5 mm)
Depth	12.61" (320 mm) without fan assembly 14.83" (377 mm) with fan assembly
Weight	13.7 lbs (6.2 kg) without fan assembly 15 lbs (6.8 kg) with fan assembly (Top and bottom hats are an additional 2.2 lbs or 1 kg each)
Construction	Brazed aluminum 6061 sidewalls, bolted aluminum assembly
POWER	
DC input	28 VDC nominal (22-33 VDC continuous) Filtered Mil 38999 type 28 VDC power input connector Unterminated 28V line cord provided ¹
ENVIRONMENTAL	
Temperature (Operating)	Ambient: -40 to +71°C (-20 to +50°C with industrial fan) Storage: -55 to +105°C (-40 to +70°C with industrial fan)
Safety Agencies	Designed to meet UL60950; CSA 22.2 #234; TÜV EN60950
Flammability Rating	UL94-V0
Shock	40 g, 11 ms
Vibration	~12 g RMS: 5-100 Hz PSD incr. @ 3 dB/oct. 100-1000 Hz PSD = 0.1 g ² /Hz 1000-2000 Hz PSD decr. @ 6 dB/oct.
EMC	Designed to meet MIL-STD-461E: CE102, CS101, CS114, CS115, CS116, RE101, RE102, RS101, RS103
GROUNDING	
Grounding	Logic GND is tied to Chassis GND in the standard chassis configurations. Contact factory if isolated Logic GND is required. Consult with factory regarding cable design with mating connector for 28VDC power supply.

Notes:

1. Consult with factory regarding cable design with mating connector for 28VDC power supply

TABLE 2: PART NUMBERS FOR STANDARD CONFIGURATIONS

PART NUMBER	DESCRIPTION
D2D-34S0-OVP6X1X	D2D 3/4-ATR, Level 0, OpenVPX 6-SI 1" pitch pass-thru, no PS backplane
D2D-34S0-OVP6X1A	D2D 3/4-ATR, Level 0, OpenVPX 6-SI 1" pitch pass-thru, 2-SI MIL PS backplane
D2D-34S2-OVP6X1A	D2D 3/4-ATR, Level 200, OpenVPX 6-SI 1" pitch pass-thru, 2-SI MIL PS backplane
D2D-34S0-OVP6D1X	D2D 3/4-ATR, Level 0, OpenVPX 6-SI 1" pitch Dis BKP3-DIS06-15.2.7-3, no PS backplane
D2D-34S0-OVP6D1A	D2D 3/4-ATR, Level 0, OpenVPX 6-SI 1" pitch Dis BKP3-DIS06-15.2.7-3, 2-SI MIL PS backplane
D2D-34S2-OVP6D1A	D2D 3/4-ATR, Level 200, OpenVPX 6-SI 1" pitch Dis BKP3-DIS06-15.2.7-3, 2-SI MIL PS backplane
D2D-34S0-CL633X	D2D 3/4-ATR, Level 0, CPCI 6-SI 0.8" pitch 3.3V 32-bit 33MHz, no PS backplane
D2D-34S0-CL633A	D2D 3/4-ATR, Level 0, CPCI 6-SI 0.8" pitch 3.3V 32-bit 33MHz, 2-SI MIL PS backplane
D2D-34S2-CL633A	D2D 3/4-ATR, Level 200, CPCI 6-SI 0.8" pitch 3.3V 32-bit 33MHz, 2-SI MIL PS backplane

Notes:

- All standard configurations include: bottom hat, flat top cover, blank front I/O panel
- Contact factory for application-specific I/O, power, or backplane connectivity

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TABLE 3: OPTIONAL ACCESSORIES (ORDERED SEPARATELY)

PART NUMBER	DESCRIPTION
L-MFM00096	Optional I/O cabling top/bottom hat
L-MFM00087	Optional flat top/bottom cover panel
L-MHK00020	Optional Level 200 28 VDC MIL fan kit
L-APC00078	Optional 2-slot MIL power supply backplane subassembly
L-EPS00016	Optional 28 VDC MIL power supply, 5 VDC 198W, 3.3 VDC 26W
L-EPS00017	Optional 28 VDC MIL power supply, 5 VDC 112W, +12 VDC 60W, -12 VDC 24W
L-ECN00377	Optional Meritex VPX kit housing short-rear (order 1 per slot with cable connections)
L-MFM00091	Front hold down bracket option
L-MFM00093	Rear hold down bracket option

TABLE 4: ORDERING INFORMATION

	PART NUMBER: D2D-	34S	0-	OVP6X1	X
SIZE					
(34S) = 3/4 ATR Short		XXX			
FAN RUGGED LEVEL					
(0-) = Commercial Level 0			X-		
(2-) = Rugged Level 200					
BACKPLANE					
(OVP6X1) = OpenVPX 6-SI 1" pitch pass-thru					
(OVP6D1) = OpenVPX 6-SI 1" pitch Dis BKP3-DIS06-15.2.7-3				XXXXXX	
(CL633) = CPCI 6-SI 0.8" pitch 3.3V 32-bit 33MHz					
POWER SUPPLY					
(X) = No PS backplane (power to be externally supplied)					X
(A) = 2-SI MIL PS backplane (compatible with power supplies listed as accessories**)					

Notes:

- All standard configurations include: bottom hat, flat top cover, blank front I/O panel
- Power supplies and other accessories are ordered separately
- Contact factory for application-specific I/O, power, or backplane connectivity

WARRANTY

This product has a one year warranty.

CONTACT INFORMATION

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