

Mini ATR, 3-Slot OpenVPX™ Platform

RUGGED, SMALL FORM FACTOR

DESCRIPTION

The modular design of this Mini ATR platform allows for various configurations. The chassis can easily be scaled up or down while using the same side walls. DC and AC power variations as well as custom front I/O configurations are available. Elma also offers a wide selection of backplanes in various architectures and has different milled card cage sizes off-the-shelf.



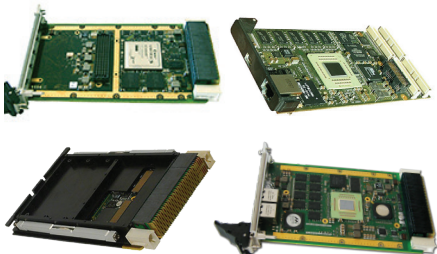
Functional Features

- Small form factor mini ATR-style chassis, natural convection-cooled is low weight, ideal for weight critical applications (SWaP)
- 3-slot backplane, 1 in pitch to meet VITA 65 (OpenVPX) Backplane Profile BKP3-CEN03-1.5.2.9-n accepts 3U OpenVPX boards on a 1 in pitch, according to VITA 48.2 (REDI) and VITA 65 (OpenVPX)
- Other backplanes can be accommodated: 3U CPCI, custom
- Two sizes available; other sizes custom:
 - 1) 133mm H x 175mm W x 311mm D (5.24in H x 6.89in W x 12.24in D)
 - 2) 133mm H x 175mm W x 235mm D (5.24in H x 6.89in W x 9.25in D)
- Advanced airflow design distributes air across external fins in sidewalls
- Optional plug-in power supply provides up to 350 W VDC; AC versions also available
- Option to accommodate 2.5in storage with drive tray
- Custom I/O options including MIL-STD wiring and connectors

Benefits

The all-aluminum Mini ATR incorporates military-grade components like MIL-DTL-38999L connector, on/off and reset switches, LEDs, breakers, etc. EMC shielding is compliant to MIL-STD-461E. Depending on specific applications, commercial, industrial, or military-grade power supplies are available. The Mini ATR can also be configured with solid-state storage and 250 W AC plug-in power supply module.

OPTIONAL COMPUTING PRODUCTS

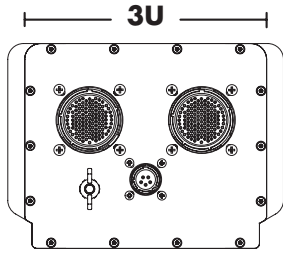


- 3U and 6U VPX compliant single board computers.
- Storage solutions; Secure, Rugged, NAS, RAID.
- Blade level networking boards (fabric switches)
- FPGA configurable I/O solutions
- Ruggedization programs

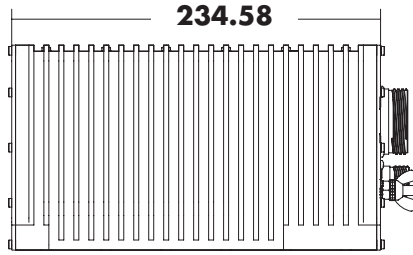
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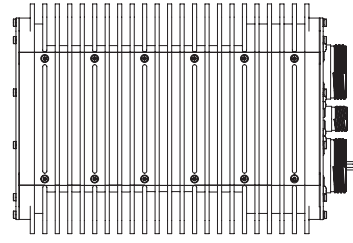
LINE DRAWING



Front View



Side View




Top View

ENVIRONMENTAL

OPERATING		STORAGE / TRANSIT
Temperature: (MIL-E-5400T Class2)	-40°C to +70°C,	-20°C to +70°C
Humidity:	95% Non condensing	
Shock:	40 Gs @ 11ms half sine	
Vibration:	20 to 2000Hz at 5Gs, sweep rate of 3 octaves per minute	
Agencies:	Designed to meet MIL-STD 810F, MIL-STD 461E, & MIL-STD 901D,	
Weight:	(CE102, CS101, CS114, CS115, CS116, RE102, RS103)VU 8	

ORDER INFORMATION

	Description	Model Number
	■ Mini ATR Platform, convection-cooled	SFFBB11203XCN2D4
	■ Dimensions: 5.24in (133mm) H x 7.09in (175mm) W x 9.84in (235mm) L	
	■ 3-slot OpenVPX backplane designed to profile BKP3-CEN03-15.2.9-n, for 3U OpenVPX boards	
	■ Conduction-cooled side walls	
	■ Power supply, plug-in 250 W VDC	
	■ Plug-in I/O	

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SFF	-	-	-	-	-	-	-	-	-	-	-	-
FORM FACTOR												SHIELDING LEVEL
A = 3U x 160mm (.8in HP) B = 3U x 160mm (1in HP) C = VITA 73 D = VITA 74 (Nano ATR) E = VITA 75 F = Custom Carrier Card G = SFF MB/SBC Card Z = Custom												4 = MIL-STD-461 X = Not installed
ARCHITECTURE												WIRING
B = oVPX, (VITA 65) W = VPX, (VITA 46) U = CPCI Express D = SUMIT/-ISM E = PC/104a F = PCIe/104 G = COM Express H = Ultra Compact Qseven I = EBX J = EPIC K = COMIT L = Pico-I/O M = Pico-ITXe N = CoreExpress O = PCI Express X = Not Installed Y = Hybrid Z = Custom												A = Discrete B = Rigid-flex-rigid C = RF D = Plug-in I/O
WIDTH												PSU OUTPUT
0 = 0mm - 99mm 1 = 100mm - 199mm 2 = 200mm - 299mm 3 = 300mm - 399mm												(Not all PSU combinations available) 1 = 100 - 199 watts 2 = 200 - 299 watts 3 = 300 - 399 watts 4 = 400 - 499 watts X = Not Installed
HEIGHT												PSU INPUT
0 = 0mm - 99mm 1 = 100mm - 199mm 2 = 200mm - 299mm 3 = 300mm - 399mm												C = 90-230 VAC (47-500Hz) N = 28 VDC (Fixed) Q = MIL-STD-704, 28 VDC R = MIL-STD-704, 90-230 VAC (47-500Hz) S = MIL-STD-1275, 28 VDC T = MIL-STD-1275, 90-230 VAC (47-500Hz) Z = Custom X = No PSU
DEPTH												COOLING
0 = 0mm - 99mm 1 = 100mm - 199mm 2 = 200mm - 299mm 3 = 300mm - 399mm												C = Conduction
												STORAGE
												1 = SBC mounted 2 = Standalone fixed 3 = Standalone removeable X = Not installed
												NUMBER OF SLOTS
												00-10: Single BP XX = Fixed-mounted card (not removable)

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