

3U OpenVPX SOSA-Aligned Development Platform

CompacFrame, Type 39S

DESCRIPTION

Elma's all-new CompacFrame is the next generation portable test platform designed to accelerate development and test of plug-in cards (PICs) aligned to the Open Group® SOSA™ Technical Standard Version 10. Accommodates up to 8-slot OpenVPX backplane. The 3U card cage in the platform is tilted upwards by 5° for easier card access.

Functional Features

- Accommodates Elma 2 to 8-slot backplanes aligned to SOSA™ or any OpenVPX backplane up to 8-slots
- Includes SMA connector for PNT (Timing) card
- Maintenance ports routed to connector on rear of backplane, brought out via breakout cable for board diagnostics
- Integrated carry handle
- 5° upwards tilt to card cage
- 1400W ATX style PSU
- Front panel voltage monitoring LEDs and test points
- Front panel reset and power switches
- Rear accessible VITA 46.11 compliant Shelf Manager
- Battery for VBAT connection
- Accommodates air cooled and conduction cooled payload boards
- 3U Rear RTM Slots available



8-slot backplane shown



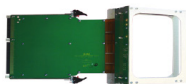
6-slot backplane shown

APPLICATIONS

The CompacFrame family of development platforms facilitate new card and system design implementations and testing aligned to SOSA™.

- › Sensor payloads
- › Electronic Warfare (EW)
- › CSISR
- › Target tracking and display
- › Navigation Systems
- › Threat detection
- › Image and data processing

RELATED PRODUCTS



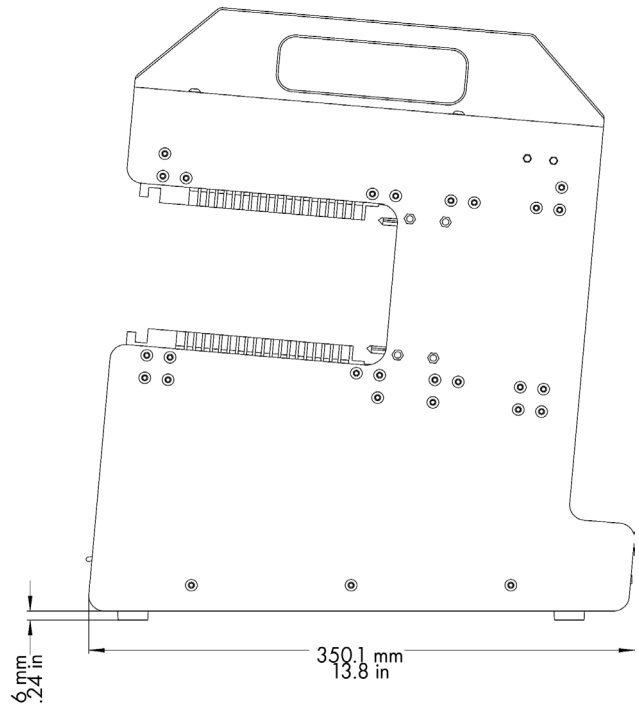
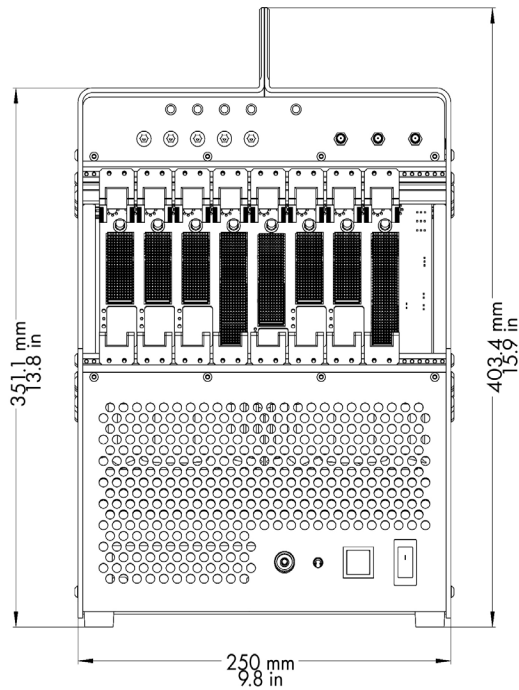
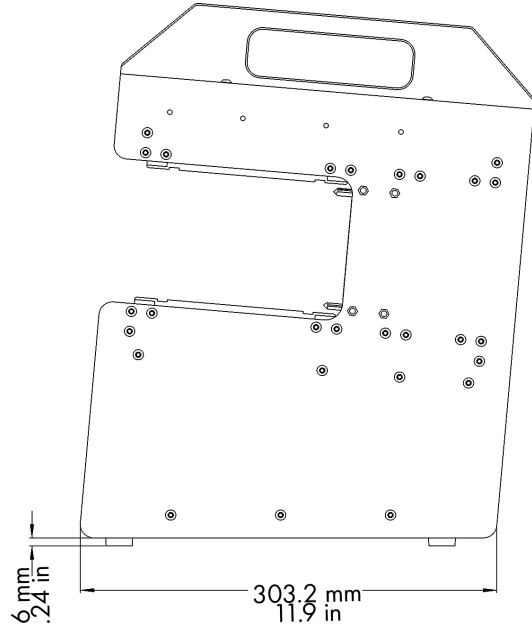
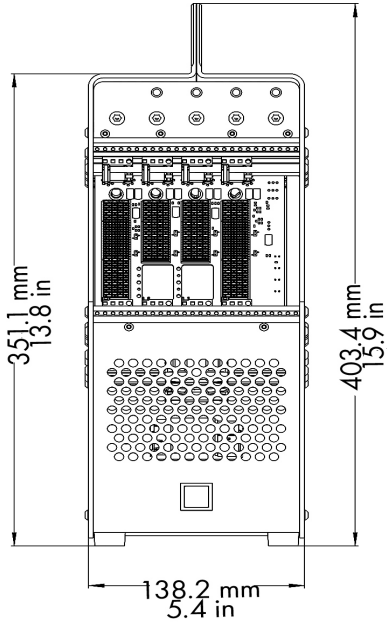
- › Load boards and extender boards
- › Backplane interconnect cabling
- › Pluggable power supplies
- › Complete line of plug-in cards (PICs)
- › Application ready integrated systems
- › VITA 46.11 Shelf Manager



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LINE DRAWING



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ELECTRICAL SPECIFICATIONS

Input Voltage	115 - 240 VAC
Input Current	10.0A - 15.0A max.
Input Frequency	47 - 63 Hz

OUTPUT SPECIFICATIONS

Voltage	+5V	+12V	+3.3V	-12V
Max Load	36.0A	116.0A	31.0A	0.5A
Min Load	1.0A	2.0A	1.0A	0.0A
Peak Load	---	---	---	---
Regulation	±5%	±5%	±5%	±5%
Ripple & Noise	50mV	120mV	50mV	120mV

*Power module total output power of +5V and 3.3V not exceed 210W

*Power module total output power not exceed 1400W for 180~264V

*Power module total output power not exceed 1200W for 103~132V

*Power good signal: ON delay 100ms to 500ms, OFF delay 1ms, HOLD UP time: 17ms minimum at full

*Load & nominal input voltage

ORDER INFORMATION

Height	Slots	Description	Model Number	Backplane Model #
3U		CompacFrame for SOSA applications		
3U	2-Slot	2 slot for SLT3-PAY-1F1F2U1TU1T1U1T-14.2.16 and SLT3-PAY-1F1U1S1S1U2F1H-14.6.11-n	39S02BWX9ZY2VCC0-2AMP	1SVX302AMP-1X31
3U	4-Slot	4 slot for SLT3-SWH-6F1U7U-14.4.14 Switch & radial clock	39S04BWX9ZY2VCC0-4AJP	1SVX304AJP-1X31
3U	4-Slot	4 slot for SLT3-SWH-6F1U7U-14.4.14 Switch	39S04BWX9ZY2VCC0-4ALP	1SVX304ALP-1X31
3U	4-Slot	4 slot for SLT3-SWH-6F1U7U-14.4.14 Switch alt EP	39S04BWX9ZY2VCC0-4ANP	1SVX304ANP-1X31
3U	6-Slot	6 slot for SLT3-SWH-6F1U7U-14.4.14 Switch with add'l DPs	39S06BW94Y3VCNO-6AKP	1SVX306AKP-1X31
3U	6-Slot	6 slot for SLT3-SWH-4F1U7U1J-14.8.7-n Switch	39S06BW94Y3VCNO-6ACP	1SVX306ACP-1X31
3U	6-Slot	6 slot for SLT3-SWH-6F1U7U-14.4.14 Switch	39S06BWX94Y3VCC0	1SVX306AEP-1X31
3U	8-Slot	8 slot for SLT3-SWH-6F1U7U-14.4.14 Switch	39S08BWX94Y3VCC0	1SVX308ABP-1X31

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Custom Configurations

39S

1 2 3 4 5 6 7 8 9 10 11 12 13

1, 2) Number of Slots BP

- 00-21: Single BP
 - AA-YY: Split
- Example: 7 slot = 07
Example: 12 + 9 = LI

3) BP Bare Board

- A = oVPX, 6U, 1" (VITA 65)
- B = oVPX, 3U, 1" (VITA 65)
- C = oVPX, 6U, .8" (VITA 65)
- D = oVPX, 6U, .8" (VITA 65)
- H = oVPX, 6U, 1" + .8" (VITA 65)
- I = oVPX, 3U, 1" + .8" (VITA 65)
- P = VPX, 6U, 1" (VITA 46)
- W = VPX, 3U (VITA 46)
- X = No BP Installed
- Z = Custom

4) BP Connector Config: J1/J2/PO

- S = RT-2(J0-J6) 6U
- U = RT-2(J0-J2) 3U
- V = RT-2(J0-J6) 6U, RTM
- W = RT-2(J0-J2) 3U, RTM
- X = No Connectors
- Y = Hybrid

5) Drives

- X = Not Installed

6) Height

- 3 = U

7) Width

- 4 - 42T (49T)
- 8 - 84T

8) Rear I/O

- Y = Yes

9) Depth

- 2 = 200-299mm
- 3 = 300-399mm

10) Card Orientation

- V = Vertical

11) PSU Input

- A = 110/220VAC (PlugIn)
- C = 90-230VAC (Fixed)
- E = 110/220VAC (2 x HS, N+1)
- G = 90-230VAC (PlugIn)
- H = 48VDC (PlugIn)
- K = 48VDC (Fixed)
- M = 48VDC (2 x HS, N+1)
- N = 28VDC (Fixed)
- O = 28VDC (2 x HS, N+1)
- P = 90-230VAC
- Q = 28VDC (2 x HS, N+1)
- X = No PSU

12) PSU Input

- A = 100-199 watt (w/3.3V)
- B = 200-299 watt (w/3.3V)
- C = 300-399 watt (w/3.3V)
- D = 400-499 watt (w/3.3V)
- E = 500-599 watt (w/3.3V)
- F = 600-699 watt (w/3.3V)
- G = 700-799 watt (w/3.3V)
- H = 800-899 watt (w/3.3V)
- I = 900-999 watt (w/3.3V)
- J = 1000-1099 watt (w/3.3V)
- K = 1100-1199 watt (w/3.3V)
- L = 1200-1299 watt (w/3.3V)
- M = 1300-1399 watt (w/3.3V)
- N = 1400-1499 watt (w/3.3V)
- O = 1500-1599 watt (w/3.3V)
- X = Not Installed

13) Shielding Level

- 0 = Level 0

Backplanes can be configured with other slot profiles. Contact Elma to discuss your slot profile configuration requirements.

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