E-Frame Series Test Platform

6U VPX/Open VPX™ Board Development

Front View

Rear View

FEATURES:

- 2-slot test & development platform for 3U and 6U VPX and OpenVPX™ boards
- 3U or 6U cards supported with a form factor adapter
- Each slot can be configured independently for power requirements
- 1.6" slot pitch accommodates wider modules compatible with VITA 48.5 (air flow-through), and easy access to components on either side of boards
- More than two modules may be interconnected with additional 2-slot backplanes
- Enables use of standard VPX RTM modules and access to J1 high speed signals
- Chassis power input: 97-264 VAC autoranging, total power 580 watts
- High performance cooling via fans with output rated at 156 CFM
- Aluminum construction with scratch-resistant black painted finish
- Built-in Voltage Monitor with green LEDs for bus voltages compliance
- Top handle for ease of portability desktop feet on bottom

SCOPE OF SUPPLY

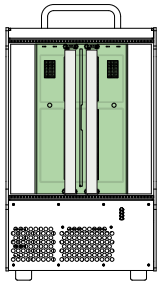
The 2-slot VPX Test Platform is unique in that it lets VPX card developers and system integrators power up one or more VPX boards and interconnect their J1 fabric connections as they would in the target application. Signals can be passed from one slot to the next with high speed cables, or signals can be introduced or accessed through the J1 fabric connector using specific VPX connector compatible cables. Each slot can be configured independently for power requirements. The wider slot pitch allows the user to insert boards compatible with VITA 48.5 (air flow-through), as well as easier access to components on the boards.

By interconnecting multiple test backplanes via cabling, one can efficiently simulate various fabric topologies without going to the expense of a custom backplane. Elma's 2-slot VPX Test Platform is also useful in bringing the J1 signals from a board under test to and from an external device such as test equipment or a host PC.

More than two modules may be interconnected with additional 2-slot backplanes installed in a larger chassis to interconnect the J1 primary fabric in any serial topology.

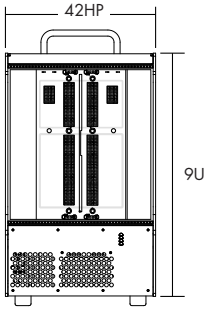
The backplane brings the J1 fabric signals out to the side of the backplane so Rear Transition Modules can be plugged in without disabling access to the signals. Most VPX boards use RTMs to bring I/O signals out the rear of the backplane.

ORDERING INFORMATION

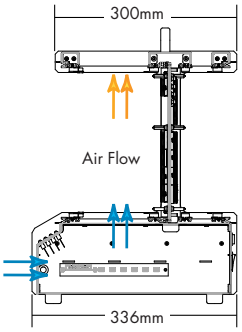


Description	Order Number
■ 9U(H) x 42HP(W) x 298mm(D) ■ Vertical front mount 6U x160mm cards ■ Rear I/O 6U x 80mm cards ■ 2-slot VPX backplane ■ 550 W: fixed PSU ■ 90-264 VAC input voltage	39E02PSXA4Y3VC50 **VPX**

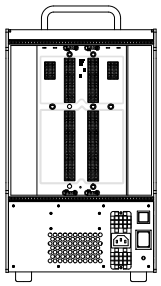
LINE DRAWINGS



Front View



Side View



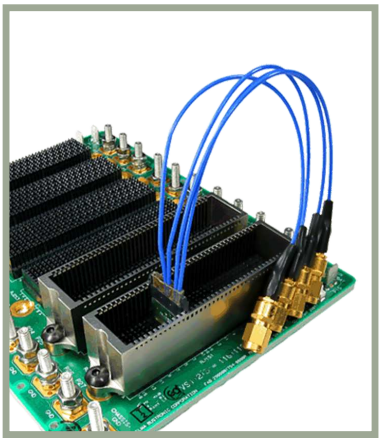
Rear View

ENVIRONMENTAL

	Operating	Storage / Transit
Temperature:	0°C to +50°C	-20°C to +70°C
Altitude:	6000 ft. (1,829m)	50,000 ft. (15,240m)
Humidity:	5% to 95% Non condensing	5% to 95% Non condensing
Shock:	10 Gs @ 11ms	15 Gs @ 11ms (per ASTM 0775)
Vibration:	1.0 Gs @ 10 to 330 Hz	1.2 Gs @ 5 to 330 Hz
Agencies:	Designed to meet UL 1950, FCC, CE	
Weight	Approx: 18 lbs	

OPTIONAL CABLE ASSEMBLIES

- VPX Cabling Kits enable faster board development and testing. For a complete list of available kits, please contact sales.
- Form Factor Adapter - accommodates the use of 3U boards in this development platform.



OPTIONAL COMPUTING PRODUCTS

- High performance Single Board Computers
- Storage solutions; Secure, Rugged, NAS, RAID
- Blade level networking boards (fabric switches)
- GPGPU compute engines & FPGA configurable I/O
- Integrated sub-systems
- Ruggedization programs