

# 5-Slot, 3U VPX Development System

## Type 39 E-Frame, Dual Pluggable Power Supplies



6 Slot, Dual Power Supply Model Shown

### Features

- Modular, open frame, VPX test and development platform
- Half width version (49HP)
- Pluggable 250Watt VITA 62 power supply
- Holds 5 front 3U x 160mm cards
- 3U 5-slot VPX power and ground backplane
- RTM mounting (rear transition module)
- Rear AC power input module with GND stud
- System monitoring with RS232 interface (optional)
- High performance cooling via front and rear mount fan trays
- Speed controlled fans with fan fail indication
- Durable, black powder coat finish
- Top handle for easy portability
- Front accessible test points and monitoring LEDs for: 3.3V,  $\pm 5V$ ,  $\pm 12V$ ,  $\pm 24V$  &  $\pm 48V$
- Fixed and plug mount PSU options: 90-264VAC

### Scope of Supply

High quality, open frame, aluminum chassis consisting of: front card cage, RTM support, high performance VITA compliant backplane, front/rear fan trays, AC/DC power components, ESD jack, DC test points, DC LED indicators, Fan Fail LED and System monitor with Ethernet control (optional). Assembled, wired and tested

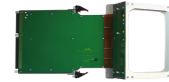
### Environmental

	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 60950, FCC, CE	
Weight:	Approx: 38 lbs	

### Applications and Related Products

Type 39 E-Frames enable easy access for embedded system development and demonstration in critical defense and industrial applications including

- Mission control
- Secure communications
- Surveillance
- Data and image processing
- Weapons control
- Target tracking and display
- Navigational control
- Threat detection
- Process monitoring
- Environmental monitoring



- Load boards and extender boards
- Rear transition modules
- Backplane interconnect cabling
- Pluggable power supplies
- Complete line of payload boards
- Application ready integrated systems

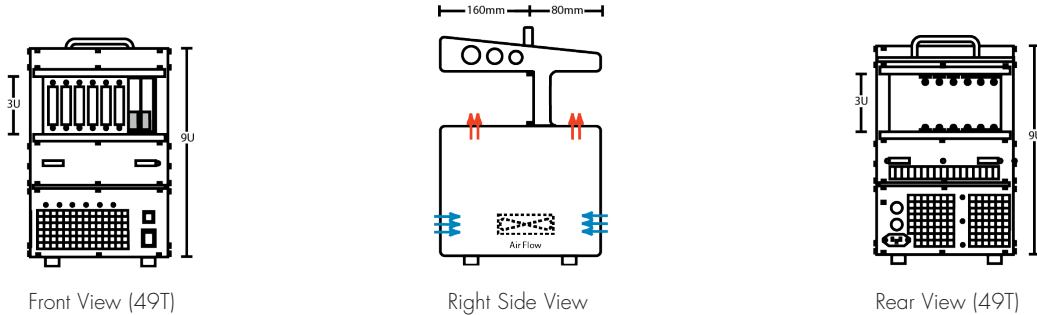
**VPX**

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### Line Drawing

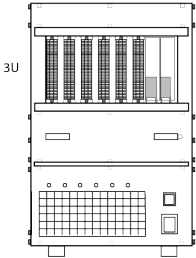


Front View (49T)

Right Side View

Rear View (49T)

### Order Information



Description	Order Number
<ul style="list-style-type: none"> <li>9U (H) x 49HP (W) x 298mm (D)</li> <li>Holds 5, 3U x 160mm cards (1")</li> <li>Holds 5, 3U x 80mm RTMs</li> <li>5-slot power and ground VPX backplane</li> <li>Backplane part number 101VPX305P-1X31R</li> <li>250W: +5V/35A; +12V/18A; -12V/1A; 3.3V/38A PSU</li> <li>90-264 AC input voltage</li> </ul>	39E05BUX94Y2VPB0

### Custom Configurations

39E             X

#### Number of Slots

00-21: Single BP; AY-YA: Split  
Example 7 slot = 07  
Example 12 + 9 = U

#### BP Bare Board

A = oVPX, 6U, 1" (VITA 65)  
B = oVPX, 3U, 1" (VITA 65)  
C = oVPX, 6U, .8" (VITA 65)  
D = oVPX, 3U, .8" (VITA 65)  
H = oVPX, 6U, 1" + .8" (VITA 65)  
I = oVPX, 3U, 1" + .8" (VITA 65)  
L = VXS Dual Star  
M = V64, J12 mono, 3 row  
N = VME64x, 6U  
O = VME64x, 7U  
P = VPX, 6U (VITA 46)  
W = VPX, 3U (VITA 46)  
S = VXS Star  
T = VXS (Mesh)  
X = No BP Installed  
Z = Custom

#### BP Connector

(Configuration J1/J2/PO)  
L = 5 row, RT-2 PO & SW  
M = 3 row, J1 flush, J2 13mm  
O = 5 row, w/o PO  
P = 5 row, w/ PO  
S = RT-2 (J0J6) 6U  
U = RT-2 (J0J2) 3U  
V = RT-2 (J0J6) 6U, RTM  
W = RT-2 (J0J2) 3U, RTM  
X = No Connectors  
Y = Hybrid  
Z = Custom

#### BP Connector

1 = 1 x 3.5"  
2 = 2 x 3.5"  
3 = 1 x 5.25" HH  
X = No Mounting

#### Height

9 = 9U

#### Width

4 = 49 T  
8 = 84 T

#### Rear I/O

Y = Yes

#### Depth

2 = 200mm - 299mm

#### Card Orientation

V = Vertical

#### PSU Input

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

#### PSU Output

(NOT ALL PSU COMBINATIONS AVAILABLE)

1 = 100 - 199 watts (w/o 3.3V)  
2 = 200 - 299 watts (w/o 3.3V)  
3 = 300 - 399 watts (w/o 3.3V)  
4 = 400 - 499 watts (w/o 3.3V)  
5 = 500 - 599 watts (w/o 3.3V)  
6 = 600 - 699 watts (w/o 3.3V)  
7 = 700 - 799 watts (w/o 3.3V)  
A = 100 - 199 watts (w 3.3V)  
B = 200 - 299 watts (w 3.3V)  
C = 300 - 399 watts (w 3.3V)  
D = 400 - 499 watts (w 3.3V)  
E = 500 - 599 watts (w 3.3V)  
F = 600 - 699 watts (w 3.3V)  
G = 700 - 799 watts (w 3.3V)

#### Shielding Level

X = Not Installed

China: +86 21 5866 5908  
France: +33 437 06 21 10

Germany: +49 7231 97 34 0  
Israel: +972 3 930 50 25

Singapore: +65 6479 8552  
Switzerland: +41 44 933 41 11

United Kingdom: +44 1234 838 822  
United States: +1 510 656 3400