



- Open Frame, Perfect for Construction, Development & Lab Chassis
- Range of VPX Backplane Options

Triple E's enclosures are constructed using our patented aluminum guide deck assemblies. Accommodates 3U or 6U x 1,6 mm x 160mm in front and 3U or 6U x 1,6mm x 80mm transition boards in rear. Designed to meet IEEE1101.10 and IEEE1101.11 mechanical interface. The front rails feature stainless steel injector/ejector plates guaranteeing extended insertion/extraction life-cycles. Designed with front lower & side air intake exhausting out the top optimizing airflow. One 150CFM fan included and provisions for two additional 20CFM fans are located under front PCB area for cooling

Triple E's enclosures are built with all aluminum construction with a durable black powder coat finish. Power Supply voltage LED's and on/off rocker switch located on front.

Triple E has a special team dedicated to subsystem design, which typically includes such components as backplanes, power supplies and cooling, all completely assembled and fully tested. Triple E is the vendor of choice for companies requiring a reliable, rugged system configured to specification and delivered on time.

#### Mechanical specifications:

3U or 6U tall x 10slots wide x 15.12" deep  
Uses Triple E's 901 series of guide clusters.  
Sideplates: 0.125" thick aluminum for rigidity  
Removable side access panels, 0.090" thick  
Rubber feet on bottom  
Folding handle on top for portable use.  
Folding bracket on bottom to raise front of unit.

#### Power Supply specifications:

Nominal input: 115 - 240 VAC  
Operational input: 90 -264 VAC  
Outputs: +3.3V, +5V, +12V, -12V  
EMC: Meets EN55022 level A / FCC class A conducted  
Safety: UL1950, CSA C22.2 No. 950, EN60950



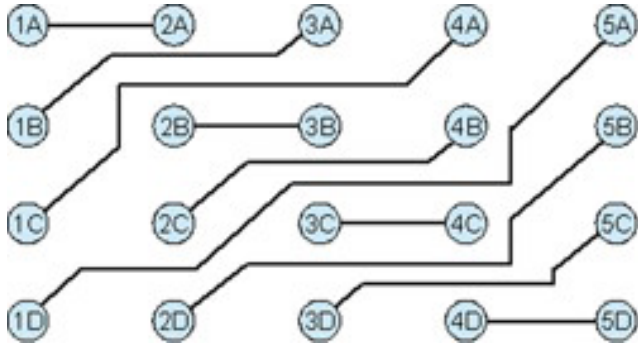
#### Backplane description:

VPX uses the high-speed multi-gig connector in a mesh topology, vastly increasing the potential bandwidth of the system. While maintaining backward compatibility with legacy VME technology via preservation of the IEEE1101.10 6U mechanical form factor and the rough-mapping of the current VMEbus signals to the VITA 46 connectors, the VITA 46 technology brings many features to reality while maintaining ability to inter-operate with existing VME technology boards.

- Compliant to the latest VITA 46 Specifications.
- High-speed Multi -gig connector in mesh topology.
- Supports redundant meshes, pipeline topologies and a cluster computing.
- High flexibility allowing applications to dictate the necessary fabric mapping.
- Provides built in ESD ground protection in every slot.
- Support for high-speed switched serial fabrics with performance up to 10 Gbps.
- Increased high -speed serial I/O support for such needs as digital video, mass storage interconnects (e.g. SATA) and FPGA interconnects (e.g. Rocket I/O)



## Connectivity Chart for 6U, 5slot backplane:



Consult factory for custom applications that include but not limited to guide decks with a combination of 0.80", 1.00" pitch and conduction cooled guides designed per IEEE1101.2

## Power supply outputs :

- 45 450W = +5@50A, +3.3@40A, +12@12-20pk, -12@4A
- 60 600W = +5@75A, +3.3@40A, +12@12-20pk, -12@4A
- 80 800W = +5@120A, +3.3@40A, +12@12-20pk, -12@10A

## Part number:

- TC3 -VPX -06-00-XX -B2 (6slot VPX Backplane, 1.00" pitch, accepts 3U boards)
- TC6 -VPX -05-00-XX -B2 (5slot VPX Backplane, 1.00" pitch, accepts 6U boards)

