





## **6U VPX Development Chassis:** DK6 "The Croc"

Supporting VPX and SOSA Aligned Payload Integration

The DK6, "The Croc" is a flexible **bench top** platform providing the scalability to support rapid development, demonstration and evaluation of 6U VPX and SOSA aligned systems.

It enables shortened design cycles for faster time to deployment. The DK6 allows fast backplane replacement and fast **conversion** between air and conduction cooled slot inserts.

The open frame design includes backplane, power supply, fan cooling and rear transition slots in support of a variety of test functions.

The DK6 comes standard with an 8 slot, 1.2" pitch power and ground backplane to support your development efforts. The DK6 has a balanced 12V / 5V power supply for **mixed power payloads** and a 12V centric power supply is available on request. Both support current and emerging VPX and SOSA aligned module power requirements. The DK6 is part of Amphenol's development solutions supporting VPX system development and the hardware convergence and interoperability initiatives of the US Department of Defense.



- Quick-conversion air or induction cooled slot inserts
- Fast and easy backplane conversion
- Accepts application-specific or power and ground backplanes
- Open access design and carrying handle
- Supports up to 12 (0.8" pitch) VPX modules
- Adjustable speed high cfm fans
- Rear transition modules slots
- Integrated AC/DC power supply

## **Benefits:**

- Allows testing of air or conduction cooled modules
- Easily swap backplanes to support development progress
- Portability promotes collaboration
- Flexible reconfiguration supports multiple development stages
- Easy test-probe access speeds up development
- Enables single module or application level testing







## **SPECIFICATIONS**

Physical	
Dimensions excluding feet and handle: 17" (H) x 12.5" (W) x 16.5" (D)	Weight: Approximately 42lbs
Power Supply	
Integrated AC-to-DC 1000W power supply 12V Centric - 1083W; 12V/600W, 5V/250W,3.3V/82.5W, -12V/150W	Outputs; MAIN: +12V, +5V, +3.3V *AUX: +3.3V, +12V, -12V *Note: AUX voltages use main voltage rails
Thermal	
Push-pull cooling in front, pull cooling over RTMs 5 upper and 2 lower fans Automatic fan speed control	Conduction cooled guides feature air passthrough cut-outs Removeable side plates to direct airflow
Environmental	
The DK6 is intended for lab use in benign environments	
Standards Compliance	
Compliant to mechanical spec VITA 48.1 and 48.2	
Controls and I/O	
Rear switch for AC ON/OFF	Status indicators: AC, +12V, +5V, +3.3V, -12V
Backplane Options	Slot Profiles
8 slot power and ground backplane, 1.2" Additional backplanes to be announced	Pass through

PART NUMBER	DESCRIPTION
CF-020400-606	DK6 development chassis, 8 x 1.2" pitch air-cooled slots, power and ground pass -thru backplane, 12V centric PSU
CF-020400-605	Conduction cooled guide accessory kit. Includes top and bottom guides plus mounting hardware