

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.



Features:

- 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

8 slot power and ground backplane, 1.2"
Additional backplanes to be announced

Slot Profiles

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