

## FEATURES AND BENEFITS

- Chassis
  - 6U high 19" rackmount enclosure
  - Top loading 8 slots, 6U x 160 mm card cage area
- Backplane
  - Custom 8-slot VXS/VITA 41 backplane
  - 2 switch slots
  - 6 payload slots
- Power
  - 1100W of power broken down as follows:
    - +3.3 V @ 500 Watts
    - +5.0 V @ 600 Watts
    - +12 V @ 300 Watts (fans)
- Cooling
  - Provides 30 CFM/slot air flow with high pressure drop payload



# CHASSIS SOLUTION 840-100

HIGH POWER 6U RACKMOUNT TOP  
LOAD CUSTOM ENCLOSURE



### MARKET

Military

### APPLICATION

Airborne Signal Processing

### CHALLENGE

Provide an air-cooled airborne rackmount chassis in a compressed 6U height space that can power and cool high power VXS payload at 20,000 ft altitude

### OVERVIEW

This high power 6U top load rackmount chassis provides power and cooling for high density signal processing payload. The custom 8-slot VXS backplane includes 2 switch and 6 payload slots. Designed for airborne applications, this aluminum chassis is designed to meet MIL-STD-810F.

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**TABLE 1: SPECIFICATIONS**

PHYSICAL	
Width	19.0"
Height	10.47"
Depth	22.503"
Weight	54.4 lbs.
ENVIRONMENTAL	
Operating Temperature	0° C to 40° C
Storage Temperature	-20° C to 65° C
Altitude	0 - 20,000 feet
Humidity	3% to 95%, non-condensing
Cooling	Four 12V 92 mm x 38 mm high performance fans provide 30 CFM/slot air flow with high pressure drop payload
Shock	Designed to meet MIL-STD-810F Method 516.4, Procedure I
Vibration	Designed to meet MIL-STD-810F Method 514.5, Procedure I Category 8
Safety	Designed to meet UL 60950; CSA 22.2 #234; TUV EN60950
EMC	Designed to meet MIL-STD-461 EMI, CE102, CS102, CS101, RE101, RE102, RS103. (Note: Power supply does not meet MIL-STD-461 in this version of the chassis)
POWER/ELECTRICAL	
DC Input	28 VDC (18-36VDC Input range)
CONSTRUCTION	
Extrusions	6063-T6 Aluminum
Top & Bottom	0.08" thick Aluminum 5052-H32
Card Cage	Side panels 0.125" thick Aluminum 5052-H32
Power Supply	1100 W: +3.3 V @ 500 W, +5.0 V @ 600 W, +12 V @ 300 W (fans)
Card Guides	Molded plastic, Noryl N190X black , UL94-V0
Tapped Strips	Carbon steel bar stock with zinc plating and supplementary chromate treatment
ESD Ground Clips	Beryllium copper, alloy C17400, 1/2 HT, with bright tin plating/MIL-T-10727
Fan Tray	Cooling via four 12 VDC tube axial fans

## WARRANTY

This product has a one year warranty.

## CONTACT INFORMATION

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