

3U PXIe Chassis



3U PXIe Chassis Bulletpoints

- Modular redundant PSU design, 500 W standard (optional up to 1 kW)
- Provides +5 V, +3.3 V, ± 12 V, +5 Vaux rails for PXIe backplane
- Redundant hot-swappable fans with Ethernet-based monitoring and control
- 19" rackmountable, 6U chassis with ~16 kg weight
- Integrated status display and Ethernet control for system management

Technical Information

Electrical Parameters:	
Inputs	
Mains input range	94–260 VAC autoranging with PFC
Input current	
Inrush current	
Input fuse	Integrated in PSU (redundant PSU design)
Outputs	
Number of channels	Up to 5 rails (depends on PSU configuration)
Output Voltages	+5 V, +3.3 V, ± 12 V, 5 V _{aux} (up to 5 outputs)
Output Power	Standard: 500 W; special versions up to 1 kW
Overvoltage protection	Built into PSU (crowbar/OVP circuits, not detailed)
Overcurrent protection	Built into PSU
Ripple and Noise	Typically < 50 mVpp with VHF switching PSU
Efficiency	
Monitoring & Control	
Voltage	Alphanumeric display via control card
Current	Not explicitly listed (likely via PSU monitoring)
Status LED	Status LEDs on control card
Isolation	
Input - Output	CE compliant isolation, IEC 1101.10
Input - Chassis	Mechanically isolated (per PXIe backplane standard)
Output - Chassis	Floating outputs (per PSU design)
Environment and Cooling:	
Operation temperature:	Not specified (typically 0–50 °C expected)
Cooling media	Redundant hot-swappable DC fans, temperature-controlled
Mechanical Parameters	
Dimensions	19" × 6 U × 225 mm (L × H × D)
Weight	~16 kg
Input Connector	On PSU modules (form not specified)
Output connector	Standard PXIe backplane; no dedicated external connectors
Mounting	Desktop, tower, or 19" rackmount (6 U)
Other	
Communication Protocols	Ethernet for remote monitoring and control
Reliability	High reliability: redundant PSU and fan systems
Warranty / Maintenance	

Electrical, Environmental & Compliance Data

Main Power

- Output Voltages / Currents: +5 V, +3.3 V, ± 12 V, +5 Vaux (up to 5 outputs, depends on PSU version)
- Output Power: Standard 500 W; optional versions up to 1 kW
- Overvoltage / Overcurrent Protection: Integrated in modular PSU
- Ripple & Noise: Typically < 50 mVpp with VHF switching PSU
- Efficiency: Not explicitly specified

Auxiliary Power

- None – all primary rails provided by integrated redundant PSU(s)

Compliance

- Safety: CE (EN 60950, ISO 380, VDE 0805, UL 1950, C22.2.950 – via PSU system)
- EMC: Not explicitly listed
- CE conformity: Yes – worldwide auto-ranging AC input (94–260 VAC) with active PFC

Environmental

- Operating temperature: Not specified (typically 0–50 °C expected)
- Storage temperature: Not specified
- Cooling: Redundant, hot-swappable DC fans (temperature-controlled, Ethernet-monitored)

Communication / Monitoring

- Local: Alphanumeric LED display with voltage, fan speed, temperature, status LEDs
- Remote: Ethernet interface for monitoring and control

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