

6U cPCI/ PXI / PXIe 6021 Full Size Chassis



6U cPCI / PXI / PXIe 6021 Full Size Chassis Bulletpoints

- Compact 6U 9-slot cPCI mini crate featuring redundant 250 W PSU modules for high uptime.
- Multiple voltage rails (+5 V, +3.3 V, +12 V) with selectable current levels, delivering up to ~300 W total.
- Clean output power with ultra-low noise and ripple (< 50 mVpp, < 3 mVrms).
- Advanced protection mechanisms: programmable overvoltage and overcurrent trip via PSU crowbars.
- Front-access cooling and control: high-RPM blower, alphanumeric display, and full remote connectivity (Ethernet/USB)

Technical Information

Electrical Parameters:	
Inputs	
Mains input range	90–265 VAC autoranging, 47–63 Hz, with PFC
Input current	10 A fuse (internal)
Inrush current	Less than 30 A at 230 VAC (cold start)
Input fuse	10 A internal fuse
Outputs	
Number of channels	9-slot cPCI backplane in 6U × 160 mm format
Output Voltages	Versions configured for: +5 V 33 A or 66 A, +3.3 V 6 A or 12 A, +12 V 1 A or 2 A
Output Power	Up to ~300 W (default 250 W per module, 1 or 2 redundant units)
Overvoltage protection	Programmable trip-off per PSU, including disconnection via crowbar
Overcurrent protection	Built-in electronic current limiting in PSU
Ripple and Noise	< 50 mVpp typical, often < 30 mVpp (0–20 MHz); < 3 mVrms (0–2 MHz)
Efficiency	Up to approximately 80 % depending on voltage rails
Monitoring & Control	
Voltage	Alphanumeric LED display (voltage, current, fans, temperature)
Current	Display via the same LED and control system
Status LED	Four status LEDs, recessed SYSRES button (via CML interface)
Isolation	
Input - Output	Meets CE EN 60950, UL 1950, ISO 380, VDE 0805, C22.2.950 standards
Input - Chassis	Fully isolated by design (no AC wiring in chassis)
Output - Chassis	Floating outputs per PSU; chassis insulated accordingly
Environment and Cooling:	
Operation temperature:	0–40 °C ambient without derating; RH 30–80 % non-condensing; pressure 70–110 kPa
Cooling media	Front-mounted removable high-RPM blower (up to 7400 RPM, MTBF >60,000 h)
Mechanical Parameters	
Dimensions	19" × 5U × 417 mm (482 × 215 × 417 mm)
Weight	Approx. 20 kg
Input Connector	IEC 3-prong power inlet built into PSU module
Output connector	cPCI backplane J1/J2 connectors; no external outputs
Mounting	Desktop, tower, or 19" rack (5U)
Other	
Communication Protocols	WIENER CML Shelf Manager with Ethernet & USB support
Reliability	Redundant, hot-swappable PSU; high-efficiency blower; rugged construction
Warranty / Maintenance	

Electrical, Environmental & Compliance Data

Main Power

- Output Voltages / Currents: +5 V/33 A or 66 A; +3.3 V/6 A or 12 A; +12 V/1 A or 2 A
- Output Power: Redundant PSU module(s) providing 250 W each (~300 W total)
- Overvoltage / Overcurrent Protection: Programmable trip-off via PSU crowbar circuits
- Ripple & Noise: < 50 mVpp (typically < 30 mVpp), < 3 mVrms
- Efficiency: Up to ~80%

Auxiliary Power

- Provided through PSU modules; no separate auxiliary

Compliance

- Safety Standards: CE EN 60950, UL 1950, ISO 380, VDE 0805, C22.2.950
- CE Compliance: Yes; autoranging input with PFC

Environmental

- Operating temperature: 0–40 °C ambient
- Cooling: High-performance front blower (up to 7400 RPM, hot-swappable)

Communication / Monitoring

- Local: Alphanumeric LED and status LEDs via CML
- Remote: Ethernet and USB interface via CML Shelf Manager

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