

6U VME64x 554-x Portable



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- 6U × 160 mm VME64x portable crate, IEEE 1101.10 compliant, rugged desktop housing
- 5 VME64x slots with optional P0 connectors
- Dual 250 W cPCI PSUs (redundant, hot-swappable; 300 W optional), up to 66 A on main rails
- typ. < 30 mVpp or < 3 mVrms (low-noise, precision supply)
- Integrated CML Shelf Manager with Ethernet & USB, front-panel LED display
- Silent DC blower with temperature control, > 60,000 h MTBF

Electrical Parameters:	
Inputs	
Mains input range	90...265 VAC, 47-63 Hz
Input current	Protected via external 10 A fuse (typical)
Inrush current	< 30 A at 230 VAC (cold start)
Input fuse	10 A external; internal fuse available on request
Outputs	
Number of channels	5 VME64x slots (optional P0 connectors)
Output Voltages	+5 V, +3.3 V, +12 V, -12 V (current capacity depends on selected PSU version)
Output Power	Dual configurations available: - VME 554x_1: 33 A for +5 V and +3.3 V, 6 A for +12 V, 1 A for -12 V - VME 554x_2: 66 A for +5 V and +3.3 V, 12 A for +12 V, 2 A for -12 V
Overvoltage protection	Trip-off protection with broken sense-line detection
Overcurrent protection	Programmable UV/OV/OC trip points; includes active DC output discharge
Ripple and Noise	< 50 mVpp; typically < 30 mVpp (0-20 MHz); < 3 mVrms (0-2 MHz)
Efficiency	Up to ~80%, depending on installed output voltages
Monitoring & Control	
Voltage	monitored via CML Shelf Manager (Ethernet/USB)
Current	monitored via CML Shelf Manager (Ethernet/USB)
Status LED	2 status LEDs + alphanumeric front-panel display
Isolation	
Input - Output	compliant with EN 60950, UL 1950, CSA C22.2-950
Input - Chassis	CE/EMC compliant earth connection
Output - Chassis	galvanically isolated via VME64x backplane
Environment and Cooling:	
Operation temperature:	0...40 °C
Cooling media	Silent DC blower, temperature-controlled, MTBF > 60,000 h
Mechanical Parameters	
Dimensions	14" (337 mm) × 5U (200 mm) × 325 mm (W × H × D)
Weight	Approx. 10 kg
Input Connector	Universal IEC mains inlet with fuse holder
Output connector	Standard VME64x backplane (optional P0 connectors)
Mounting	Portable desktop chassis, 19" rack adaptable
Other	
Communication Protocols	Integrated CML Shelf Manager with Ethernet and USB interface for remote control and monitoring

Reliability	Redundant hot-swappable 250 W cPCI power supplies (300 W optional) Active DC discharge on trip-off Thermal shutdown >110 °C (heatsink) or >70 °C (ambient) Silent DC blower, MTBF >60,000 h at 40 °C
Warranty / Maintenance	2 years / 5 years

Electrical, Environmental & Compliance Data

Main Power

- Output Voltages / Currents: +5 V up to 33–66 A, +3.3 V up to 33–66 A, +12 V up to 6–12 A, –12 V up to 1–2 A (depending on PSU version)
- Regulation (load change 10–100 %): $\pm 5 \text{ V} / +3.3 \text{ V} < 0.2 \%$, $\pm 12 \text{ V} < 0.1 \%$
- Ripple & Noise (full load): typ. < 30 mVpp, < 3 mVrms
- Recovery time (10–100 % load): < 0.15 ms
- Output impedance (static/dynamic @ 100 kHz): typ. 1.5 m Ω / 0.5 Ω

Auxiliary Power

- None – all primary outputs provided via VME64x backplane

Compliance

- VME64x standard, IEEE 1101.10 mechanical compliance
- CE conformity, EMC/ESD compliant, FCC Class B (model-dependent)

Environmental

- Operating temperature: 0 °C to +40 °C (no derating required)
- Storage temperature: –30 °C to +85 °C
- Rugged alloy chassis with EMC shielding
- Silent temperature-controlled blower, MTBF > 60,000 h

Communication / Monitoring

- Integrated CML Shelf Manager with Ethernet & USB for monitoring and remote control
- Front-panel alphanumeric display with real-time voltage, current, fan speed, and temperature
- 2 status LEDs for quick diagnostics

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