

Two Locations One Commitment



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kontron
The Power of IoT

Product Portfolio

Defense



Research



Railway



Mission-Ready Embedded Systems



VPX 360 Sosa



- » COTS, conduction-cooled 3U / 5HP VPX power supply compliant with ANSI/VITA 62.0 and VITA 46.0.
- » Nominal 28 V / 48 V DC, operating from 12 V to 68 V DC, with reverse-polarity and overvoltage protection.
- » Embedded controller with dual I²C (IPMI 2.0 / VITA 46.11) for monitoring, control, and diagnostics.
- » 12 V-centric architecture, up to 600 W total output, high efficiency (up to ~92%), no wet electrolytic capacitors.

VPX Backplane 5 Slot



- » High-speed design for 100GBase-KR4 with MULTIGIG RT3 connectors. Et dolere magna aliquam erat
- » Aligned with SOSA™, VITA 46.0 and VITA 65.
- » 1 Switch + 4 Payload slots, optional module support
- » Double-Star Data Plane, Single-Star Control Plane, fixed Extension Plane routing.
- » Featuring TE Connectivity MULTIGIG RT 3 connectors

VPX Chassis 4U/50HP



- » Slots: 7 x 3U OpenVPX, profile BKP3-CEN07-15.2.3-4 (6 payloads + 1 integrated switch) for PCIe Gen3 & 10GbE with rear I/O
- » Power Supply: 600 W VPX plug-in, input 90–264 VAC, 47–63 Hz Output Voltages: 12 V/28 A, 3.3 V/19 A, 5 V/25 A, ±12 V_AUX/1 A, 3.3 V_AUX/6 A
- » Cooling: Removable 1U fan tray with 2 x 92 mm (12 V DC) fans, airflow bottom-to-top
- » Compliance: IEC 60297-3-101/-102/-103; MIL-STD-810F (vibration & shock); EN 50155 (railway)

KCC Chassis Manager



- » VITA 46.11 Tier-2 Certified: Native chassis management for VPX systems
- » CRA-Ready Security: Secure-by-design with SBOM-based vulnerability control
- » IPMI & Redfish API: Modern HTTPS/TLS-based system integration
- » Web-Based Interface: Real-time monitoring and event handling
- » Scriptable Automation: Custom triggers and advanced event logic

VPX 3U Backpane SOSA



- » 100G Ethernet Ready: VPX backplane with 100GBase-KR4 & MULTIGIG RT 3 connectors
- » SOSA® & VITA Aligned: Compliant with VITA 46.0 and VITA 65
- » 7-Slot Architecture: 1 SBC, 1 Switch, 1 Clock, 4 Payload slots
- » RF-Ready Expansion: Optional VITA 67.3C coaxial modules
- » Rugged Design: -40 °C to +85 °C operation with high-current support



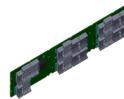
Rail & Industrial Control Systems

Serial Backplanes



- » COTS, conduction-cooled 3U / 5HP VPX power supply compliant with ANSI/VITA 62.0 and VITA 46.0.
- » Nominal 28 V / 48 V DC, operating from 12 V to 68 V DC, with reverse-polarity and overvoltage protection.
- » Embedded controller with dual I²C (IPMI 2.0 / VITA 46.11) for monitoring, control, and diagnostics.
- » 12 V-centric architecture, up to 600 W total output, high efficiency (up to ~92%), no wet electrolytic capacitors.

PXIe Backplane 6 Slot



- » 6-slot PXI Express chassis (1 system slot, 1 PXI Express slot and 4 PXI/PXI Express full hybrid peripheral slots)
- » based on PXI-5 PXI Express Hardware Specification Rev. 1.1
- » 6.5 GBit/s System Bandwidth, up to 2 GBit/s per slot
- » Temperature Range -20°C to +50°C

PXIe Backplane 18 Slot



- » 1 System Slot - 16 Hybrid Slots - 1 Timing Slot
- » PXI Express - CompactPCI Express - Legacy PXI / CompactPCI
- » PCIe Gen2 / Gen3 switch fabric – up to 24GB/s system bandwidth
- » 1+1 PSU redundancy, up to 2400 W, D-SUB 8W8 & power sensing
- » Low-jitter clocks - Galvanically isolated triggers - Segment isolation

CompactPCI Backplanes



- » High-Speed CompactPCI Backplane: 3U form factor with optimized HF design for low reflection and stable signal integrity
- » PICMG 2.0 R3.0 Compliant: Fully compliant with the CompactPCI standard and high-speed design concept.
- » Flexible Slot Configurations: Available with 2 to 21 slots and selectable right (RA) or left (LA) system slot options.
- » Robust Power & Grounding: Stable supply voltages per slot with continuous chassis ground and high current capability.

CompactPCI 2U 84HP 4 Slots



- » 4 slots, 64-bit / 33 MHz, system slot left, rear I/O
- » 300 W hot-swap PSU, 90–264 VAC
- » Removable fan tray, 3 fans (36.4 CFM each), dust filter, LEDs
- » 2U x 84HP, 19 rack-mount
- » Compliance: IEEE 1101.1/101.11, IEC 60297-3, enhanced EMC



Scientific & High-Energy Physics Solutions

Modular Chassis Platforms

Marapod – Radiation- Tolerant Platform



- » Radiation & Magnetic Field Tolerant – up to 170 Gy tested · 120 mT
- » 340–400 V DC Input – up to 12 LV output channels
- » Water-Cooled System Design – >25 °C · >40 L/h
- » Independent Channel Control – precise & protected
- » Scalable Marapod Chassis Platform

VXI family



- » 6-13 Slots
- » 1100 -6000W
- » Customizable

MPV Module



- » cooled by a water-cooled system
- » Over 700 Watt per module
- » Radiation Tolerant
- » B-Field Tolerant
- » Up to 12 Individual Output Channels per Module
- » Up to 120 Output Channels per System
- » Up to 250 Watt per Channel

PXIe PXI cPCI family 19“



- » 9-21 Slots
- » 500-3000W
- » Customizable

MPOD Low Voltage Module



- » Up to 16 or 4 individually controlled LV channels per module
- » Output power: 50 W up to 225 W per channel
- » Voltage ranges: 0–8 V, 0–16 V, 0–30 V, 0–60 V, 0–120 V
- » Resolution: up to 21 bit for voltage/current (High Precision Series)
- » Ripple & noise: <3 mVpp (0–20 MHz)
- » Dimensions: 6U x 40.64 mm x 220 mm; weight ~2 kg

Mpod Crate family 19“ 1-10



- » 1-10 Slots
- » 300-6000W
- » Customizable

PL506 3U 6 Outputs 3000W



- » Up to 6 independent, floating DC outputs at 600 W each
- » Total output power up to 3 kW in a 3U chassis
- » Remote control and monitoring via USB, Ethernet, Web interface, SNMP
- » Master-Slave mode for current boosting by paralleling channels
- » Programmable voltage, current, temperature, ramp rate, and protection limits
- » Auto-ranging AC input (94–265 VAC) with PFC and high efficiency (up to 90%)

VME/VME64x family 19“



- » 5-21 Slots
- » 150-6000W
- » Customizable

MTCA.4 1000W Power Supply



- » 16x 12 V/8.4 A payload outputs (max. 1000 W total)
- » 16x 3.3 V/0.2 A management outputs
- » Output ripple (12 V): < 10 mVpp / < 5 mVpp / < 1 mVRMS
- » Output ripple (3.3 V): < 12 mVpp / < 10 mVpp / < 5 mVRMS
- » Line regulation (12 V): < 3 mV over 100–253 VAC
- » Load regulation (12 V): < 43 mV static, < 55 mV dynamic

VXS family 19“



- » 21 Slots
- » 3000W
- » Customizable