6U VME430 195 Mini

Request Quote

6U VME430 195 Mini

The VME195-C mini crate is the perfect choice for a small CERN V430 compatible setup. The crate offers 9 VME slots in compact designed chassis with integrated low noise power supply and cooling fan. It can be used either as a desktop / mini tower or 19" rack mounted.

Based on the 6000 series it has a built-in microprocessor controlled low-noise power supply technology and provides all local and remote monitoring and control features.

Main Features

- VME-MINI-Bin mechanics for 6U 160mm VME modules, suitable either for 19" racks, as tower- or desktop box
- 9 slot monolithic backplane CERN VME430 with J1/Jaux/J2
- Free rear access for 6U transition modules, standard transition cage for 6U 160mm modules, provisions for 80 and 120mm foreseen. Special depth on request
- Micro-processor controlled with alphanumeric high-visibility LED display, 4 status LED's
- Efficient DC blower, adjustable speed (1200 … 3200 RPM,) temperature controlled
- Integrated fan and thermal monitoring (8 temperature sensor ports, 5 ports free for custom applications) with temperature display (C/F), programmable over temperature protection
- Ethernet /RS232 / CAN-bus combo interface for crate remote monitoring and control
- Built-in Power-Supply designed in low noise VHF switching technology, noise and ripple typically less than 10mV(pp) or 3mV(rms)
- world wide range AC-input 94V – 265V with power factor correction

- VME-MINI-Bin mechanics for 6U 160mm VME modules, suitable either for 19" racks, as tower- or desktop box
- 9 slot monolithic backplane CERN VME430 with J1/Jaux/J2
- Free rear access for 6U transition modules, standard transition cage for 6U 160mm modules, provisions for 80 and

120mm foreseen. Special depth on request

- Front and rear cover / screen for module space, cable duct between front- and rear-side of the card cages with space for one or more 2,5" hard / floppy-disks
- Micro-processor controlled with alphanumeric high-visibility LED display, 4 status LED's
- Efficient DC blower, adjustable speed (1200 … 3200 RPM,) temperature controlled
- Integrated fan and thermal monitoring (8 temperature sensor ports, 5 ports free for custom applications) with temperature display (C/F), programmable over temperature protection
- Ethernet /RS232 / CAN-bus combo interface for crate remote monitoring and control
- Built-in Power-Supply designed in low noise VHF switching technology, noise and ripple typically less than 10mV(pp) or 3mV(rms)
- Up to **six** different output voltages at 650W/≥100VAC output power, for special configurations up to 1000W
- 94V – 265V world wide range AC input with power factor correction-CE-conformity
- Dimensions: 19" x 5U x 480mm [whd], weight: ca. 27 kg

Standard configurations (other possible on request)

Crate Version	Backplane	+5V	+12V	-12V	-5.2V	-2V
VME 195-C	VME430	45A	11.5A	11.5A	45A	22A
VME 195-C Special	VME430	115A	23A	23A	45A	22A

VME / VME430 / VME64x Mini crate 195

Specs:			
Rated mains input range	106- 230VAC ± 15% (90...265VAC)		
Rated input current	Sinusoidal 16A		
Inrush current:	limited to rated input current (cold unit)		
Input fuse:	external,		
Isolation (Inp.- outp.)	**CE** EN 60950, ISO 380, VDE 0805, UL 1950, C22.2.950		

DC output power:	**650... <1100W (92…265VAC)**		
Regulation			
static:	MDH (>20A)	<0,05%	(+/-100% load, +/- full mains range)
	MDL / MDH	<0,1%	(+/-100% load, +/- full mains range)
dynamic:	MDH	<100mV	(+/-25% load)
	MDL / MDH	<0,7%	(+/-25% load)
Recovery time	+/-25% load:	within +-1%	within +-0,1%
Modules 550W	0,2ms	0,5ms,	
Modules 650W	0,5ms	1,0ms	
MDL / MDH	0,0ms	1,0ms	

(Conditions: Current slope ≤1000A/ms, 21mF per 100A ^ 1mF per slot)

Sense compensation range:	difference between min. and max. output voltage

EMC Compatibility

EMA.	**EN 61 000-6-3:2001**	**[RF emission]**
	EN 55 022:1998 + Corr:2001 + A1:2000 Class B	conducted noise
	EN 55 022:1998+ Corr:2001 + A1:2000 Class B	radiated noise
	EN 61 000-3-2:2001	harmonics
	EN 61 000-3-3:1995 +Corr:1997 +A1:2001	flicker
EMB	**EN 61 000-6-2:2001**	**[immunity]**
	EN 61 000-4-6:1996 + A1:2001	injected HF currents
	EN 61 000-4-3:1996 + A1:1998 + A2:2001	radiated HF fields incl. ”900MHz”
	EN 61 000-4-4:1995 + A1:2001	Burst
	EN 61 000-4-5:1995 + A1:2001	Surge
	EN 61 000-4-11:1994 + A1:2000	voltage variations
	EN 61 000-4-2:1995 + A1:1998 + A2:2001	ESD

Operation temperature:	0… 50°C ambient without derating, Storage:-30°C ... +85°C
Temperature coefficient:	< 0,2% / 10K
Stability:	10mV or 0,1% / 24 hours, 25mV or 0,3% / 6 month (under constant conditions)
Current limits:	adjustable to any lower level
Voltage rise characteristics:	monotonic 50ms, processor controlled.
Overvoltage protection:	crow bar protection trip off adjusted to 125% of nominal voltage each output
DC Off (trip off):	within 5ms if >5% deviation from adjusted nominal values, after overload, overheat, overvoltage, undervoltage (bad status), and fan fail, if temperatures exceed 125°C at heat sinks. Limits programmable. Outputs discharged by crow bars, when power supply tripped- or switched Off.
Efficiency:	75% ... 85%, depends on used modules

M F O T (Maintenance Free Operation Time):

internal blowers:	40°C ambient	>65 000 h

	25°C ambient	100 000 h
electronics:	40°C ambient	>100 000 h

Product Data Sheet

6U VME430 195 Mini:	Print Product Data Sheet

Documentation

Manual and Tech-Notes :	Crates_195
Introduction:	WIENER_VME_VXI_VXS_introduction

Downloads

SYScontrol :	Download
SNMP:	Download
OPC-Server:	Download
UEP6Control:	Download
Firmware UEL:	UEL6
	UEL6-Ethernet
Firmware UEP :	Download