

## 6U VME NIX-I crate series

The low-cost / industry standard VME NIX-I series, provides basic full size VME crates with rear side, open frame power supply and removable fan tray.

### VME NIX-I Features

- 7U VME-Bin, VM4 with 21 Slots for 6Ux160mm VME modules, light construction
- 21 slot J1/J2 monolithic backplane, 8 layer PCB, active termination, active automatic-daisy-chain, on request with two separated 10 slot backplanes available
- Plug-in, replaceable VME fan tray UL 4 with high efficient 3- fold DC fan tray blowers, one unit height, air inlet from bottom, optionally watched by temperature sensors and / or variable fan speed
- VME-Power-Supply UEP4, low noise VHF switching technology based, up to 650W output power, rear side mounted (behind J1 area)
- Optionally with CANbus interface (CAN-bus remote monitoring and controlling).
- CE-conformity
- Dimensions: 19" (482mm) x 7U (311mm) x 325mm [whd], weight: ca. 11.7 Kg

### Standard Crate configurations (other possible on request)

Crate Version	Backplane	+5V	+12V	-12V
NIX-I A	VME/VME64	45A	6.8A	6.8A
NIX-I B	VME/VME64	100A	10A	10A



VME NIX-I Crate front view

### Technical Details

#### AC Input

195...260VAC 47-63Hz, (47-400Hz on request)

#### Inrush current:

limited by NTC softstart-circuit, max. 30A (cold unit)



<b>Isolation Inp.-outp.:</b>	CE , EN 60950, ISO 380, VDE 0805, UL 1950, C22.2.950		
<b>Regulation static:</b>	5V	<25mV (+/-100% load, +/-15% mains)	
	12V	<0.1% (+/-100% load, +/-15% mains)	
<b>dynamic :</b>	5V	<100mV (+/-25% load)	
	12V	<0.7% (+/-25% load)	
<b>Recovery time :</b>	+/-25% load	within +-1%	within +-0.1%
	5V	0.2ms	1.5ms
	12V	0.0ms	1.0ms
<b>Sense compens.range:</b>	min. 0.5V with full load		
<b>Noise and ripple:</b>	< 30mVpp (0-20MHz ) 3mVrms (0-2MHz)		
<b>EMI /RFI-rejection (emission):</b>	CE, EN 50081-1 VDE 0871B		
<b>EMI / EMC (immunity):</b>	CE, EN 50082-2		
<b>Operation temp.:</b>	0....50°C without derating		
<b>Storage:</b>	-30°C up to 85°C		
<b>Temp.-coefficient:</b>	< 0.2% / 10K		
<b>Stability (const. conditions):</b>	10mV or 0.1% within 24 hours		
	50mV or 1.0% within 6 month		
<b>Current limits:</b>	115% of rated current-values		
<b>Overvoltage crow bar protection:</b>	trip off adjusted to 125% of nominal voltage each output		
<b>DC Off (trip off):</b>	within 5ms if >2% deviation from adjusted nominal values, after overload, overheat, overvoltage, undervoltage (bad status) and fan fail, output capacitors will be discharged by the crow bars temperature limits 110°C heat sink, 70°C ambient, trip off points adjustable, processor controlled.		
<b>Efficiency:</b>	75% - 80%		
<b>M T B F:</b>	>65 000 h (at 40°C ambient temperature)		

