

**Mechanical and Climatic Parameters**

	VME Backplanes	VME64x Backplanes
<b>Operating Temperature</b>	-25°C - +85°C (active termination) -40°C - +85°C (passive termination) -40°C - +105°C (on request)	
<b>Storage Temperature</b>	-40°C - +105°C -55°C - +105°C (on request)	
<b>Humidity</b>	95%, non condensing Conformal Coating (on request)	
<b>Climatic Test Group</b> (IEC68/1)	25/085/21	
<b>Flammability</b> (PCB, Connectors)	UL 94 V-0	
<b>Connectors</b> (VME J1, J2)	DIN 41612	IEC 61076-4-113 160 way extended DIN
Performance level per IEC 60603-2	Level 2	Level 2
Mechanical Durability (Mating Cycles)	> 400 cycles	> 400 cycles
Total Insertion and Extraction Force	< 100 N	< 160 N
	DIN 41612 Level 1 (on request)	IEC 61076-4-113 Level 1 (on request)
<b>Connectors</b> (VME P0)		IEC 61076-4-101 95 way Modul B
Performance level per IEC 60603-2		Level 2
Mechanical Durability (Mating Cycles)		> 250 cycles
Total Insertion and Extraction Force		< 0,7 N / Pin
<b>Vibration</b> acc. DIN 41640 Part 15	10 Hz - 500 Hz, 5 g rms	
<b>Shock</b> (10 pulses each direction x, y, z)	50 g, 6 ms	
<b>Low Pressure / Altitude</b> (max voltage between two pins <=12V)	250 mbar / 20.000 m	
<b>Dimensions</b> (mm)		
Width	20,32 mm x Slots - 1,4 mm	20,32mm x Slots - 1,5 mm
Height (3U / 6U)	128,70 / 262,05 mm	262,05 mm
Thickness	3,2 mm +/- 0,3 mm	4,7 mm +/- 0,5 mm

## Electrical Parameters

	VME Backplanes	VME64x Backplanes
<b>Specifications</b>	ANSI/VITA 1-1994 VME64 Specification  ANSI/VITA 1.7 - 2003 Increased Current Level for 96 Pin & 160 Pin DIN/IEC Connector Standard	ANSI/VITA 1-1994 VME64 Specification  ANSI/VITA 1.1-1997 VME64x Specification  ANSI/VITA 1.5-2003 2eSST Transfer Protocol  ANSI/VITA 1.7 - 2003 Increased Current Level for 96 Pin & 160 Pin DIN/IEC Connector Standard  ANSI/VITA 3-1995 VME64x Live Insertion System Requirements  ANSI/VITA 38 – 2003 SMB Specification, Draft
<b>Service Life</b> MTBF, acc. to MIL HDBK 217F, 25°C, ground, benign; 21-Slot Monolithic	more than 235.000 h	
<b>Characteristic Impedance</b>	55 Ω ± 10 %	
<b>Ohmic Resistance</b>	< 60 mΩ / Slot	
<b>Hot Swap</b>	not supported	supported
<b>Termination</b>	active / passive, field changeable 330 / 470 Ohm Networks	passive  330 / 470 Ohm Networks
<b>Power input</b> 4 to 21 Slots 2 Slots	Power bugs for wiring, comprising M4 Screws Fastons	
<b>Max. Current Carrying Capacity</b>	per ANSI/VITA 1.7-2003  3U BP: +5V, 6 A / Slot @ 95°C 6U BP: +5V, 12 A / Slot @ 95°C	per ANSI/VITA 1.7-2003  +5V: 12A / Slot @ 95°C +3,3V: 18 A / Slot @ 95°C +/-12V;+/-V1;+/-V2: 2 A / Slot @ 95°C each VPC: 6 A / Slot @ 95°C
<b>Max. Voltage Drop on +5V</b>	< 50 mV	
<b>Data Transfer Rate (peak)</b> MBLT protocol 2eVME 2eSST	80 Mbyte/s 160 Mbyte/s	80 Mbyte/s 160 Mbyte/s 320 Mbyte/s