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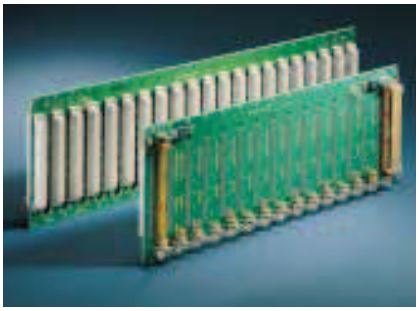
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VMEbus backplanes J1 system bus



10596025

J1 system bus

- 3 U backplane with 16-bit data bus width
- Termination:
  Versions in IN-, ON- and OFF-board available
  Can be switched over, ON-/IN-board, active/passive
- Versions with (ADC) and without automatic daisy chaining (MDC) available
- Several IN-/OFF-board backplanes can be mounted next to each other without the loss of slots
- Particular features of IN-board backplane:
  – Through-connected PE mounting holes
  – Better shielding (on the backplane, shielded planes are on the outside, signal lines on the inside)

Delivery comprises

Qty	Description	Material
1	Backplane	Fully equipped
10	Daisy chain jumper	
4	Locking lever	For safe securing of external terminator board on OFF-board

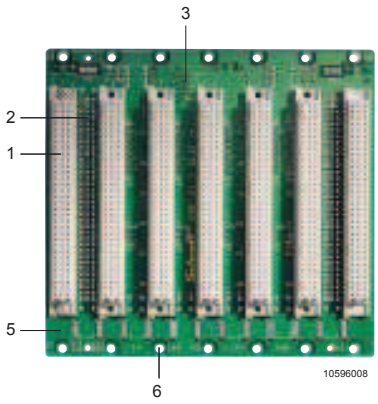
Slot	Width mm	Order No. ON-board [3] ADC [7]	ON-board [3] MDC	IN-board [3] ADC [7]	IN-board [3] MDC	OFF-board ADC	OFF-board MDC [5]	Slot	Width mm
1		–	–	–	–	–	**23000-101[6]**	1[1]	16.3
2		–	–	**23000-062[4]**	–	**23000-102**	**60800-369[2]**	2	38
3	71	**23000-003**	**23000-603**	**23000-063[4]**	–	**23000-103**	–	3	58
4		–	–	**23000-034**	**23000-634**	**23000-104**	–	4	78
5	112	**23000-005**	**23000-605**	**23000-035**	**23000-635**	**23000-105**	**23000-705**	5	98
6	133	–	**23000-606**	**23000-036**	**23000-636**	**23000-136**	**23000-706**	6	118
7	153	**23000-007**	**23000-607**	**23000-037**	**23000-637**	**23000-107**	**23000-707**	7	138
8		–	–	**23000-038**	**23000-638**	**23000-108**	**23000-708**	8	159
9	194	**23000-009**	**23000-609**	**23000-039**	**23000-639**	**23000-109**	**23000-709**	9	179
10	214	**23000-010**	**23000-610**	**23000-040**	**23000-640**	**23000-110**	**23000-710**	10	199
11		–	–	**23000-041**	**23000-641**	**23000-111**	**23000-711**	11	219
12	255	**23000-012**	**23000-612**	**23000-042**	**23000-642**	**23000-112**	**23000-712**	12	240
13		–	–	**23000-043**	**23000-643**	**23000-113**	**23000-713**	13	260
14		–	–	**23000-044**	**23000-644**	**23000-114**	**23000-714**	14	281
15	316	**23000-015**	**23000-615**	**23000-045**	**23000-645**	**23000-115**	**23000-715**	15	301
16	338	**23000-016**	**23000-616**	**23000-046**	**23000-646**	**23000-126**	**23000-726**	16	321
17		–	–	**23000-047**	**23000-647**	**23000-117**	**23000-717**	17	341
18		–	–	**23000-048**	**23000-648**	**23000-118**	**23000-718**	18	362
20	417	**23000-020**	**23000-620**	**23000-050**	**23000-650**	**23000-120**	**23000-720**	20	403
				23000-051	**23000-651**	**23000-121**	**23000-721**	21	423

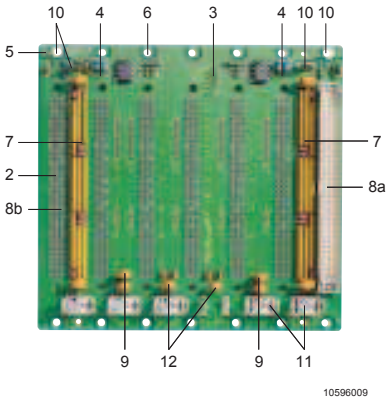
[1] For power supply
[2] Connecting board for side-by-side mounting
[3] Termination can be switched over between active/passive
[4] Termination passive
[5] Cannot be mounted side by side
[6] 4-layer
[7] 1st slot, MDC connector
ADC = **A**utomatic **D**aisy **C**haining
MDC = **M**anual **D**aisy **C**haining

Note
Further dimensions available on request.

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VMEbus backplanes J1 system bus





Technical data:

- "High-speed" VME system bus, ON-/IN-board backplanes – particularly suitable for data transmission with fast drivers (ABT, FCT)
- Complying with Specification ANSI/VITA 1-1994
- Uniform impedance of all signal lines
- Optimized layout for minimal crosstalk
- Current distribution via busbars and connections via screw/plug connectors
- Suppression capacitors for conducted interference
- Interference suppression to PE ground also possible with plated-through PE mounting holes
- Safe interference suppression of transient and dynamic currents

Item	Description
1	Connector either with or without switch connector
2	Wire-wrap pins for daisy chain jumper for manual daisy chain (MDC)
3	Utility connector (5 wire-wrap pins, accessible on both sides)
4	Termination changeover between active/passive for ≥ 4 slots
5	Multi-layer backplane
6	Assembly holes
7	Terminators (for ON-, IN-board)
8a	Connector slot 1, prepared for locking lever
b8	On OFF-board, even last slot equipped with connector
9	Suppression capacitors for filtering conducted interference on the power supply lines
10	PE connection (FASTON) and for IN-/OFF-board also through-plated mounting holes
11	Power connections
12	Decoupling capacitors between each slot

		ON-board	IN-board	OFF-board[1)]
Description		VME system bus, 16-bit, J1, 3 U		
Bit rate		20 Mbyte/s		
Base material		Epoxy resin fibreglass EP GC 02 as per DIN 40 802 (FR4), flame-resistant as per UL 94 V-0		
Design		4-layer: signal – V_{cc} – GND – signal	6-layer: GND – signal – GND – V_{cc} – signal – GND	
Characteristic impedance Z / Ohmic resistance R of all signal lines		Z = 60 ± 5 Ω / R <1.5 Ω	Z = 55 ± 5 Ω / R <1.5 Ω	
Termination location		ON-board	IN-board	OFF-board
Termination type		Can be switched over between active/passive	2 – 3 slot, passive, ≥ 4 slot, can be switched over between active/passive	External
Basic current consumption		< 0.5 A (active termination), < 1.5 A (passive termination)		External
Connections	Power supply	FASTON (2.8/6.3 mm × 0.8 mm), screw terminals (M4)		
	PE	FASTON 6.3 × 0.8 mm	FASTON 6.3 × 0.8 mm, through-plated mounting holes	
	ACFAIL	FASTON 6.3 × 0.8 mm	–	
	Utility signals	Wire-wrap pins (GND, + 5 V, ACFAIL*, SYSFAIL*, SYSRESET*)		
	Connectors	C 96, press-in version, quality class 2 (400 plug-in cycles), ADC and MDC; for ADC first and last slot MDC connector, 1st slot cannot be jumpered, MDC cannot be mounted side by side		
Temperature range	Operation	Termination active 0 °C ... 50 °C, termination passive -40 °C ... +85 °C		
	Storage	Termination active -40 °C ... +85 °C, termination passive -40 °C ... +85 °C		
Dimensions	Height	3 U, 130 mm; 2 slot connecting board 100 mm		
	PCB thickness	approx. 3.2 mm		
	Slot pitch	4 HP = 20.32 mm		

[1)] Suitable with limitations for fast drivers, * Low active

Backplanes
J1 system bus.....3.21.2
J2 I/O bus.....3.21.4
J1/J2 monolithic...3.21.6
J2 VSBbus.....3.21.8

Accessories
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