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10595005

J1/J2 monolithic

- 6 U backplane with 32-bit data bus width (combination of J1 and J2 levels)
- Termination:
  Versions in IN- and ON-board available
  Can be switched over between active/passive
- Versions with and without automatic daisy chaining available
- Several backplanes can be mounted next to each other without the loss of slots

Delivery comprises

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

Slot	Width in mm	Order No.		
		IN-board		OFF-board
		ADC[1)]	MDC	ADC
3	57	**23000-463**	**–**	**23000-503**
4	77	**23000-464**	**23000-864**	**23000-504**
5	98	**23000-465**	**23000-865**	**23000-505**
6	118	**23000-466**	**23000-866**	**23000-506**
7	138	**23000-467**	**23000-867**	**23000-507**
8	159	**23000-468**	**23000-868**	**23000-508**
9	179	**23000-469**	**23000-869**	**23000-509**
10	199	**23000-470**	**23000-870**	**23000-510**
12	240	**23000-472**	**23000-872**	**23000-512**
13	260	**23000-473**	**23000-873**	**23000-513**
14	280	**23000-474**	**23000-874**	**23000-514**
15	301	**23000-475**	**23000-875**	**23000-515**
16	321	**23000-476**	**23000-876**	**23000-516**
20	403	**23000-480**	**23000-880**	**23000-520**
21	423	**23000-481**	**23000-881**	**23000-521**

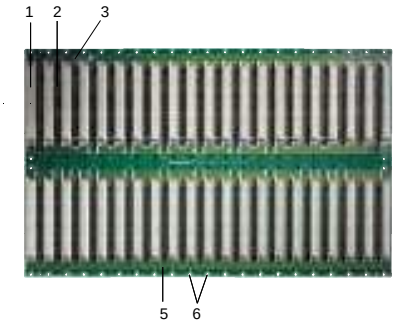
[1)] 1st slot, MDC connector
ADC = **A**utomatic **D**aisy **C**haining
MDC = **M**anual **D**aisy **C**haining

Note
Further dimensions available on request.

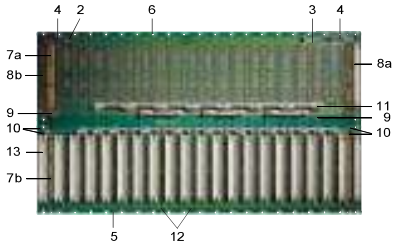
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VMEbus backplanes J1/J2 monolithic

Example: IN-board



10596006



10596007

Technical data:

- "High-speed" VME system bus, particularly suitable for data transmission with fast drivers (ABT, FCT)
- Complying with specification ANSI/VITA 1-1994 and VME64
- 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
- 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 IN-board)
5	Multi-layer backplane
6	Assembly holes
7a	Terminators (J1 for IN-board)
b7	Terminators (J2)
8a	Connector J1/slot 1, prepared for locking lever
b8	For OFF-board only: Connector J1, last slot, prepared for locking lever
9	Suppression capacitors for filtering conducted interference on the power supply lines
10	PE connection (FASTON 6.3 × 0.8 mm)
11	Power connections
12	Decoupling capacitors between each slot
13	Connector J2, connector body prepared for locking lever, row b partially equipped, voltage supply pins fitted

		IN-board	OFF-board[1)]
Description		6 U monolithic VME system bus, 32-bit, J1 + J2	
Bit rate		80 Mbyte/s with MBLT protocol	
Base material		Epoxy resin fibreglass EP GC 02 as per DIN 40 802 (FR 4); flame-resistant as per UL 94 V-0	
Design		6-layer multi-layer: signal – signal/V_{CC} – V_{CC} – GND – GND/signal – signal	
Characteristic impedance Z / Ohmic resistance R of all signal lines		Z = 55 ± 5 Ω / R ≤ 1.5 Ω	R ≤ 1.5 Ω
Termination location		IN-board	OFF-board[1)]
Termination type	J1	Can be switched over between active/passive	External
	J2	passive	
Basic current consumption (termination)	J1	< 0.5 A (active)	External
	J1	< 1.5 A (passive)	
	J2	< 0.3 A (passive)	
Connections	Power supply	FASTON (2.8/6.3 mm × 0.8 mm); screw terminals (M 4)	
	Power supply	via special busbars e.g. at 5 V, max. 9 A per slot	
	PE	FASTON 6.3 × 0.8 mm	
	Utility signals	Wire-wrap pins (GND, +5 V, ACFAIL*, SYSFAIL*, SYSRESET*)	
	Connector	C 96, press-in version, quality class 2 (400 plug-in cycles)	
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	6 U, 263.3 mm	
	PCB thickness	approx. 3.2 mm	
	Number of slots	3 to 21	
	Width:	= number of slots × 20.32 mm – 4.013 mm	
	Slot	Pitch between 2 connectors = 4 HP = 20.32 mm	

[1)] Termination with external J1 termination board, see J1 terminator, further boards can be mounted side by side, 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

J1 terminator.....3.21.10
Ribbon cable bus 3.21.10
Busbar.....3.21.11
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Power jumpers....3.21.12

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