

Backplanes

Overview 0

Cabinets 1

Wall mounted cases 2

Accessories for cabinets and wall mounted cases 3

Climate control 4

Desk-top cases 5

Subracks/ 19" chassis 6

Front panels, plug-in units 7

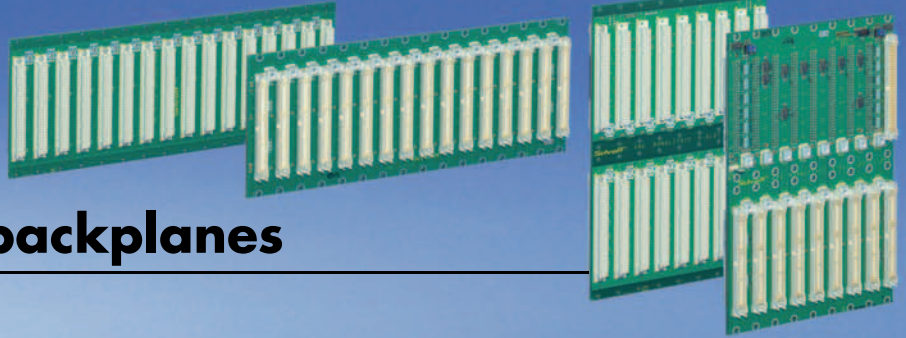
Systems 8

Power supply units 9

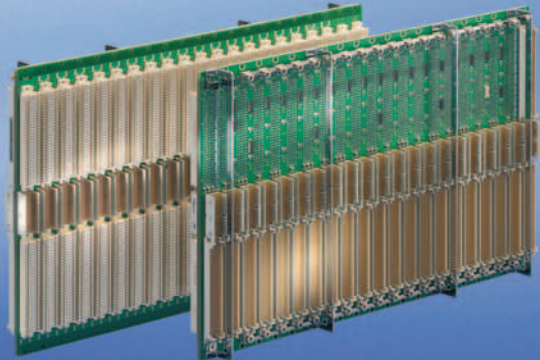
Backplanes 10

Connectors, front panel component system 11

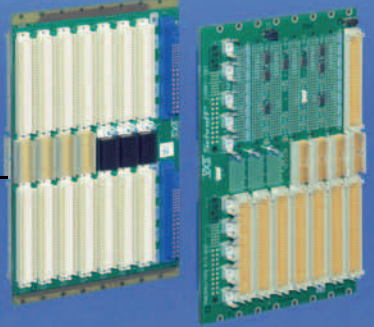
Appendix 12



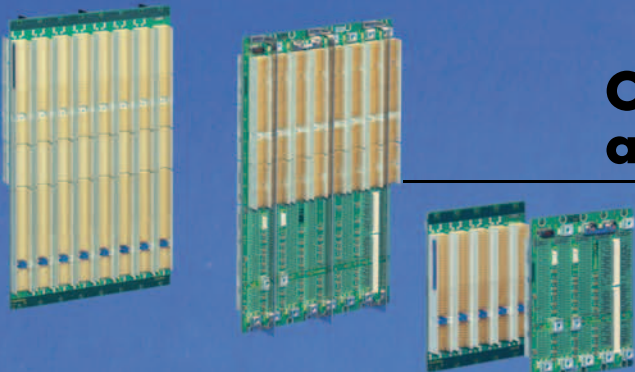
VME backplanes



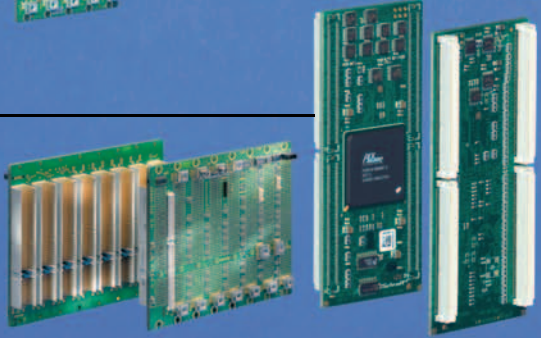
VME64x backplanes



VXS backplanes



CPCI backplanes and bridges



PXI backplanes

10506003 10506002 10502001 10506004 12406002 12406001 12406004 12402004 36106009



Backplanes

Overview 10.0

Backplanes

VMEbus

- Monolithic J1/J2 . . . 10.2
- J1 (3 U) 10.3
- J2 (3 U) 10.4

VME64 extension

- Monolithic VME64x 10.5
- VXS backplanes . . 10.5

CompactPCI

- 3 U, 32-/ 64-bit . . . 10.6
- I/O backplanes . . . 10.6
- 6,7 U, 64-bit . . . 10.7
- Bridge 10.9
- Secondary, 32-/64-bit 10.9

PXI

- Backplanes 10.10
- Bridge 10.10
- cPSB, H.110 backplanes 10.11
- CompactPCI express backplanes 10.11

ATCA

- AdvancedTCA backplanes 10.12
- MicroTCA backplanes 10.12

Power backplanes

- with P 47 connector 10.13
- Power piggyback 10.13

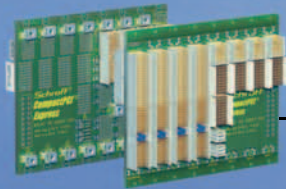
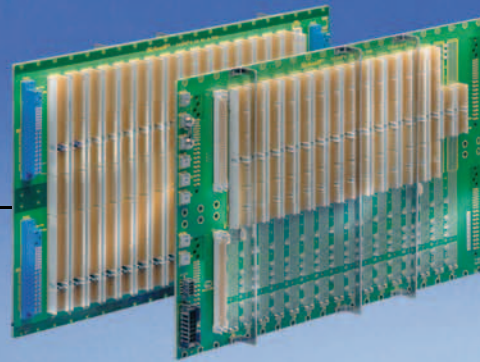
Universal backplanes

- with/ without through-connected signal lines 10.14

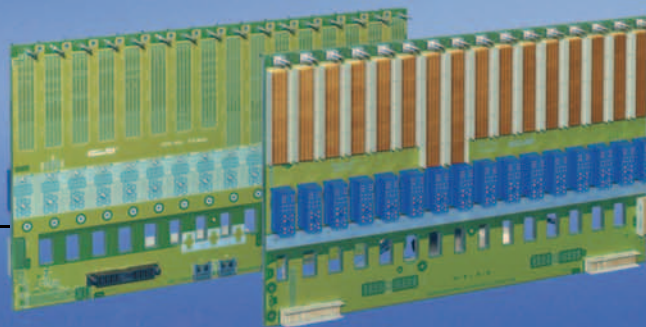
Test adapters

- Type B - F, H, M 10.16
- for VMEbus 10.21
- 6 / 9 U test adapters . . . 10.22
- Guide rails 10.23
- Type / printed board versions . . 10.24
- Dimensions test adapters 10.25

cPSB and H.110 backplanes



CPCI express backplanes

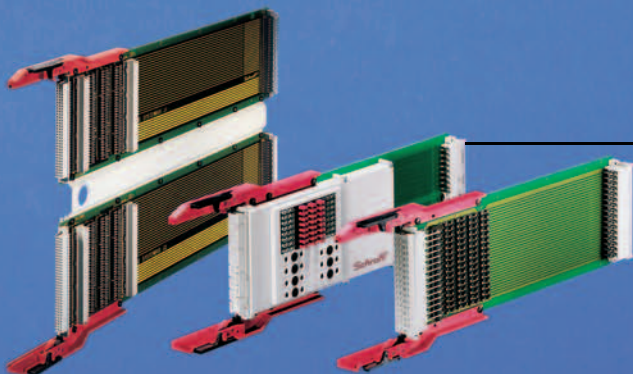
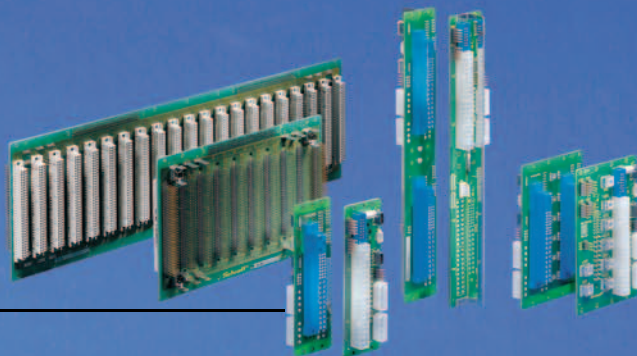


AdvancedTCA backplanes

MicroTCA backplanes



Power and Universal backplanes



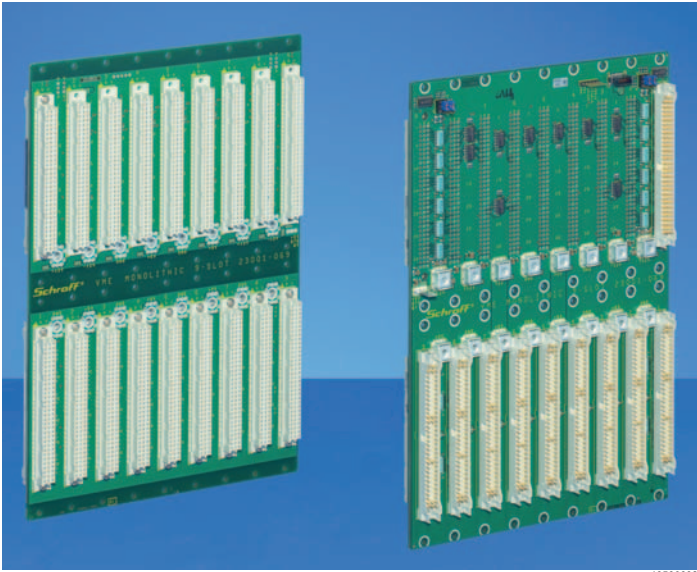
Test adapter

12402005 12606003 12406003 12606001 12096003 11902001 11192004 11100013 11100010 36106010



Backplanes – VMEbus

Monolithic J1/J2 backplanes (6 U)



10506003

- In accordance with VITA 1-1994 (VME standard)
- Termination can be switched between active/passive
- Electronic automatic Daisy Chain (EDC), ADC and MDC available on request
- Shielded signal layers
- Outstanding high-frequency noise suppression and very high MTBF values due to ceramic capacitors



Delivery comprises

Item	Qty	Description
1	1	Backplane, EDC, fully fitted
2	10	Screw M4 x 6, with lock-washer

Order Information

Number of slots	Width mm	Height U	Order no.
3	59.5	6	23001-063
4	79.8	6	23001-064
5	100.2	6	23001-065
6	120.5	6	23001-066
7	140.8	6	23001-067
8	161.1	6	23001-068
9	181.4	6	23001-069
12	242.4	6	23001-072
15	303.4	6	23001-075
16	321.3	6	23001-076
18	364.3	6	23001-078
20	405.0	6	23001-080
21	425.3	6	23001-081

EDC = Electronic automatic Daisy Chain

ADC = Automatic mechanical Daisy Chain

MDC = Manual Daisy Chain

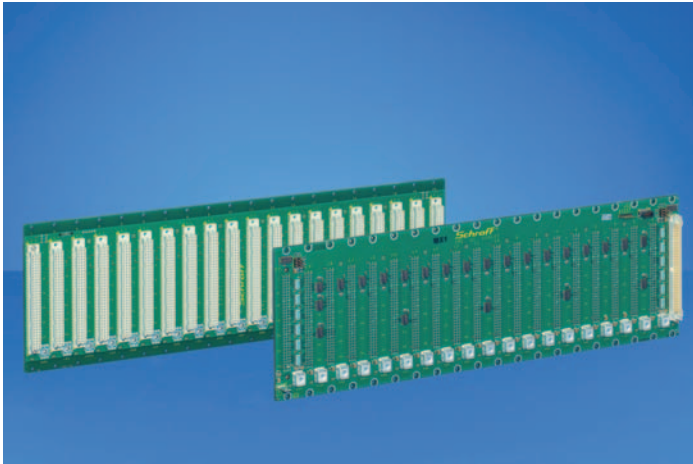


For further information www.schroff.biz/oneclick
oneClick code = Order no.



Backplanes – VMEbus

J1 backplanes (3 U)



10506001

- In accordance with VITA 1-1994 (VME standard)
- Termination can be switched between active/passive
- Electronic automatic Daisy Chain (EDC), ADC and MDC available on request
- Shielded signal layers
- Outstanding high-frequency noise suppression and very high MTBF values due to ceramic capacitors



Delivery comprises

Item	Qty	Description
1	1	Backplane, fully fitted
2	10	Screw M4 x 6, with lock-washer

Order Information

Number of slots	Width mm	Height U	Order no.
2	40.4	3	23001-002
3	59.7	3	23001-003
4	79.8	3	23001-004
5	100.2	3	23001-005
6	120.5	3	23001-006
7	140.8	3	23001-007
8	161.1	3	23001-008
9	181.4	3	23001-009
10	199.2	3	23001-010
11	219.5	3	23001-011
12	242.4	3	23001-012
13	260.2	3	23001-013
15	303.4	3	23001-015
17	341.4	3	23001-017
18	364.3	3	23001-018
20	405.0	3	23001-020
21	425.3	3	23001-021

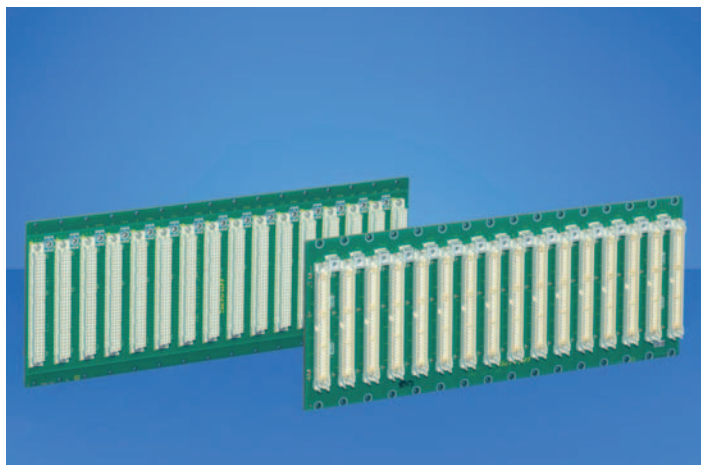
EDC = Electronic automatic Daisy Chain
 ADC = Automatic mechanical Daisy Chain
 MDC = Manual Daisy Chain



For further information www.schroff.biz/oneclick
 oneClick code = Order no.

Backplanes – VMEbus

J2 backplanes (3 U)



10506002

- In accordance with VITA 1-1994 (VME standard)
- Termination passive
- Outstanding high-frequency noise suppression and very high MTBF values due to ceramic capacitors



Delivery comprises

Item	Qty	Description
1	1	Backplane, fully fitted
2	10	Screw M4 x 6, with lock-washer

Order Information

Number of slots	Width mm	Height U	Order no.
2	40.4	3	23001-032
3	59.7	3	23001-033
4	79.8	3	23001-034
5	100.2	3	23001-035
6	120.5	3	23001-036
7	140.8	3	23001-037
10	199.2	3	23001-040
16	321.3	3	23001-046
20	405.0	3	23001-050
21	425.3	3	23001-051

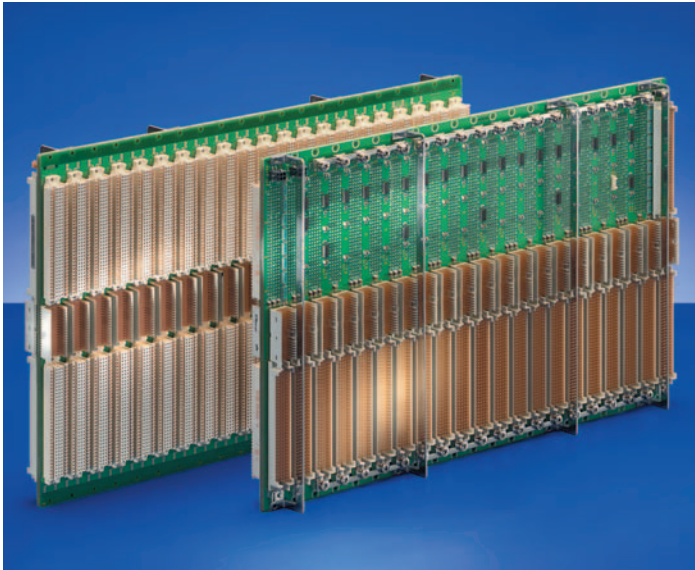


For further information www.schroff.biz/oneclick
oneClick code = Order no.



Backplanes – VME64 extension

Monolithic VME64x backplanes (6 U)



10502001



- In accordance with:
 - VITA 1.1-1997 VME64 extensions Standard
 - VITA 38 System Management for VME
- Termination, passive, Electronic automatic daisy chain (EDC)
- Outstanding high-frequency noise suppression and very high MTBF values due to ceramic capacitors
- 10-layer structure; thickness 4.7 mm; 7 U version with reinforced current feed, optional pluggable power supply

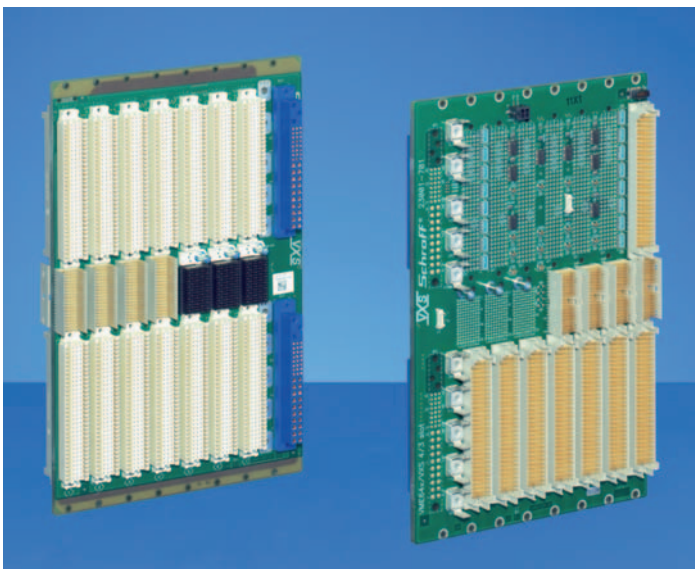
Delivery comprises

Item	Qty	Description
1	1	Backplane, fully fitted
2	10	Screw M4 x 6, with lock-washer

Order Information

Number of slots	Width mm	Height U	Without P0	With P0
			Order no.	Order no.
2	39.1	6	23001-502	23001-532
3	59.5	6	23001-503	23001-533
4	79.8	6	23001-504	23001-534
5	100.2	6	23001-505	23001-535
7	140.8	6	23001-507	23001-537
8	161.1	6	23001-508	23001-538
10	201.8	6	23001-510	23001-540
11	222.0	6	23001-511	23001-541
12	242.4	6	23001-512	23001-542
15	303.4	6	23001-515	23001-545
16	323.7	6	23001-516	23001-546
20	405.0	6	23001-520	23001-550
21	425.3	6	23001-521	23001-551
21	425.3	7	23001-621	23001-651

VXS backplanes



10506004

- In accordance with VITA -41.0, -41.1, -41.10, -41.11

Delivery comprises

Item	Qty	Description
1	1	Backplane, fully fitted
2	10	Screw M4 x 6, with lock-washer

Order Information

Number of slots	Width mm	Height U	Description	Order no.
7	171.7	6	4 Slot VME64x, 3 x VXS payload slots, connected as ring, 2 x 47 slot position (above each other)	23001-701
20	405.4	6	18 x payload slots and 2 switch slots in the middle	23001-720

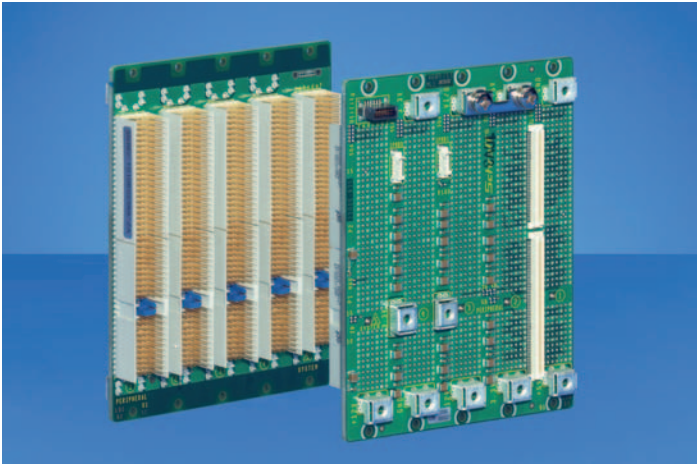
Note

- Other backplanes in accordance with VITA -31, -41 and -46 in preparation



Backplanes – CompactPCI bus

CompactPCI backplanes 3 U, 32-bit and 64-bit



12406001

- In accordance with:
 - PICMG 2.0 R.3.0 CPCI Core specification
 - PICMG 2.1 R 2.0 Hot Swap specification
 - PICMG 2.9 R 1.0 System Management specification
- V/I/O with screwing bridge adjustable to +5 V (default) or +3.3 V
- Outstanding high frequency noise suppression and very high MTBF values due to ceramic capacitors
- 1 slot backplane for power supply
- 32-bit: rear I/O on P2

Delivery comprises

Item	Qty	Description
1	1	Backplane, fully fitted
2	10	Screw M4 x 6, with lock-washer, from 2 slots, for assembly of power connecting cable on the powerbugs

Order Information

Number of slots	Width mm	Height U	32-bit slot	64-bit slot	64-bit slot
			on the right	on the left	on the right
			Order no.	Order no.	Order no.
1	19.3	3	23006-811	23006-811	23006-811
2	39.6	3	23006-812	-	-
3	60.1	3	23006-813	23006-733	23006-833
4	80.3	3	23006-814	23006-734	23006-834
5	100.6	3	23006-815	-	23006-835
6	121.0	3	23006-816	23006-736	23006-836
7	141.2	3	23006-817	-	23006-837
8	161.6	3	23006-818	23006-738	23006-838

Note

- Bridging capability 4 ... 7 Slot, system slot on the right
- Secondary backplanes, see CompactPCI backplanes, secondary, page 10.9

CompactPCI I/O backplanes



12403001

- In accordance with PICMG 2.0 r3.0 CPCI core specification
- For 3 U backplanes if 6 U boards are used
- Connects J4 and J5 from front to rear I/O board

Delivery comprises

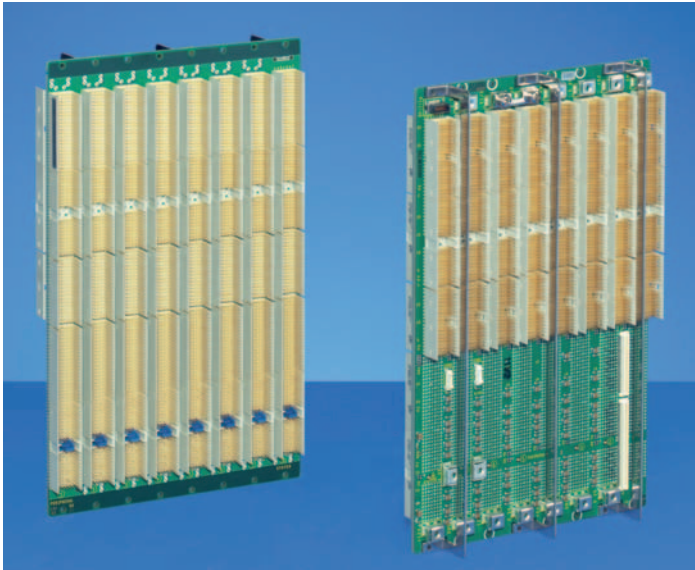
Item	Qty	Description
1	1	CompactPCI, I/O backplane

Order Information

Number of slots	Width	Height	Order no.
	mm	U	
1	19	3	23090-719

Backplanes – CompactPCI bus

CompactPCI backplane 6, 7 U, 64-bit



12406002

- In accordance with:
 - PICMG 2.0 R 3.0 CPCI Core specification
 - PICMG 2.1 R 2.0 Hot Swap specification
 - PICMG 2.9 R 1.0 System Management specification
- V/I/O with bridge, adjustable to +5 V (default) or +3.3 V
- Outstanding high frequency noise suppression and very high MTBF values due to ceramic capacitors



Delivery comprises

Item	Qty	Description
1	1	Backplane, fully fitted
2	10	Screw M4 x 6, with lock-washer (except 23006-792)

Order Information

Number of slots	Width mm	Height U	64-bit slot on the left	64-bit slot on the right
			Order no.	Order no.
2	39.6	7	23006-792	-
2	39.6	6	-	23006-862
3	60.1	6	-	23006-863
4	80.3	6	-	23006-864
5	100.6	6	23006-765	23006-865
6	121.0	6	-	23006-866
7	141.2	6	-	23006-867
8	161.6	6	23006-768	23006-868

Note

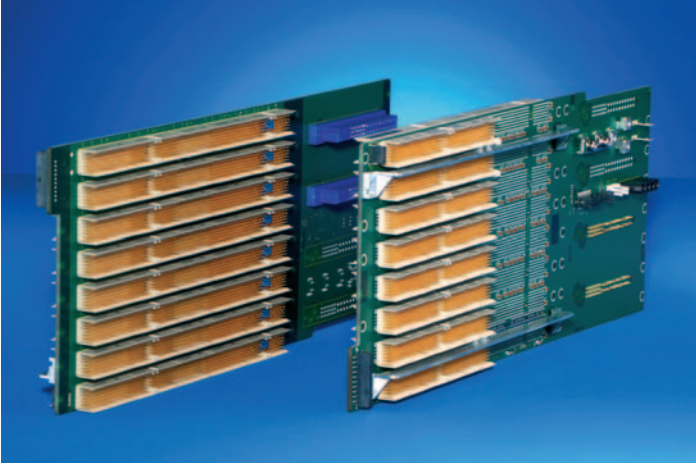
- Bridging capability 4 ... 7 Slot, system slot on the right
- Secondary backplanes, see CompactPCI backplanes, secondary, page 10.9



For further information www.schroff.biz/oneclick
oneClick code = Order no.

Backplanes – CompactPCI

CompactPCI backplane 6 U, 64-bit, with two connector positions for 3 U power supplies



12405002

- In accordance with:
 - PICMG 2.0 R 3.0 CPCI Core specification
 - PICMG 2.1 R 2.0 Hot Swap specification
 - PICMG 2.9 R 1.0 System Management specification
- V/I/O with screwing bridge adjustable to +5 V (default) or +3.3 V
- Outstanding high frequency noise suppression and very high MTBF values due to ceramic capacitors
- 2 connectors for 2 x 3 U CompactPCI power supplies (8 slot),
1 connector for 1 x 3 U CompactPCI power supply (6 slot)



Delivery comprises

Item	Qty	Description
1	1	Backplane, fully fitted
2	1	Connector for fan plug-in unit
3	1	Power supply connector for drives
4	1	Power connections for all voltages
2	10	Screw M4 x 6, with lock-washer

Status signal: IPMbus, FAL#, DEG#, Utility, INH#, temperature sensors

Order Information

Number of slots	Width mm	Height U	Description	Order no.
6	121.0	9	64-bit	23006-796
6	121.0	9	H.110	23006-612
8	161.6	9	64-bit	23006-797
8	161.6	9	H.110, cPSB	23006-611

Note

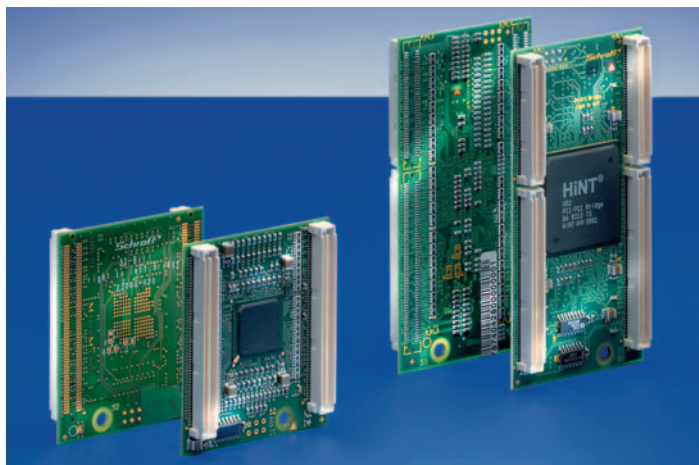
- Backplane for 3 up to 4 power supplies available on request
- CompactPCI power supplies, see chapter Power supply units



For further information www.schroff.biz/oneclick
oneClick code = Order no.

Backplanes – CompactPCI bus

CompactPCI bridge



12406004

- In accordance with:
 - PICMG 2.6 CPCI Bridging specification
 - PCI 2.1 PCI Local Bus specification, Rev. 2.1
- Very compact version, no slot loss
- Assembly on the rear side
- No interference with rear I/O boards



Delivery comprises

Item	Qty	Description
1	1	Bridge, system slot on the right

Order Information

Description	Order no.
32-bit	23006-920
64-bit	23006-922

CompactPCI backplanes, secondary, 32-bit / 64-bit



12401021

- In accordance with:
 - PICMG 2.0 R 3.0 CPCI Core specification
 - PICMG 2.1 R 2.0 Hot Swap specification
 - PICMG 2.9 R 1.0 System Management specification
- Secondary backplane for assembly in rows
- Outstanding high frequency noise suppression and very high MTBF values due to ceramic capacitors
- VI/O with bridge, adjustable to +5 V (default) or +3.3 V



Delivery comprises

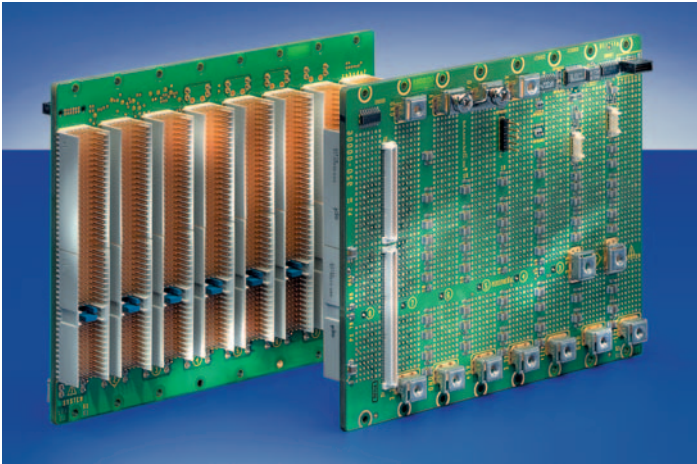
Item	Qty	Description
1	1	Backplane, fully fitted, system slot on the right
2	10	Screws M4 x 6, with lock-washer

Order Information

Description	Height U	Number of slots	Width mm	Order no.
32-bit	3	4	80	23006-824
32-bit	3	7	141	23006-827
64-bit	3	4	80	23006-854
64-bit	3	7	141	23006-857
64-bit	6	7	141	23006-887

Backplanes – PXI backplanes

PXI backplanes



12402004

- In accordance with:
 - PXI specification R 2.0
 - PICMG 2.0 R 3.0 CPCI Core specification
 - PICMG 2.1 R 2.0 Hot Swap specification
 - PICMG 2.8 D 0.7 Pin registration for PXI
 - PICMG 2.9 R 1.0 System Management specification
- Clock switch / clock generation on the backplane
- 64-bit bus width, system slot on the left
- 12-layer structure, little crosstalk digital to analogue section
- Outstanding high frequency noise suppression and very high MTBF values due to ceramic capacitors
- Expansion capability using 5, 7 slot boards

Delivery comprises

Item	Qty	Description
1	1	PXI backplane, 64-bit, system slot on the left
1	1	Screw M4 x 6, with lock-washer

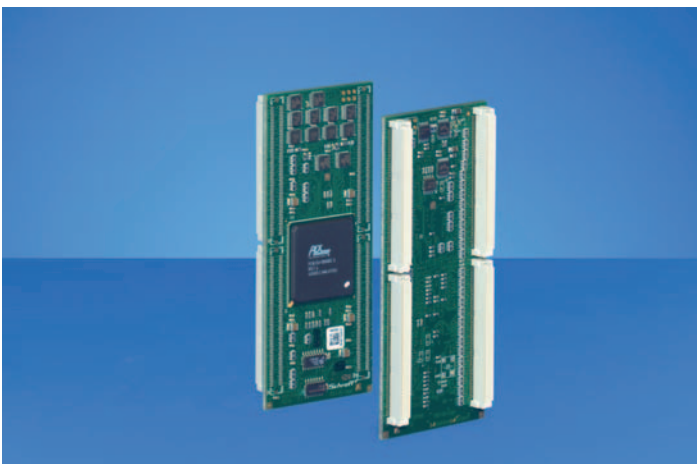
Order Information

Number of slots	Width mm	Height U	Description	Order no.
5	100.6	3	primary	23006-575
7	141	3	primary	23006-577
8	162	3	primary	23006-578
7	141	3	secondary	23006-587
7	141	3	tertiary	23006-597



For further information www.schroff.biz/oneclick
oneClick code = Order no.

PXI bridge



12406004

Delivery comprises

Item	Qty	Description
1	1	PXI bridge, 64-bit

Order Information

Description	Order no.
PXI bridge	23006-924

- Configuration software on the internet

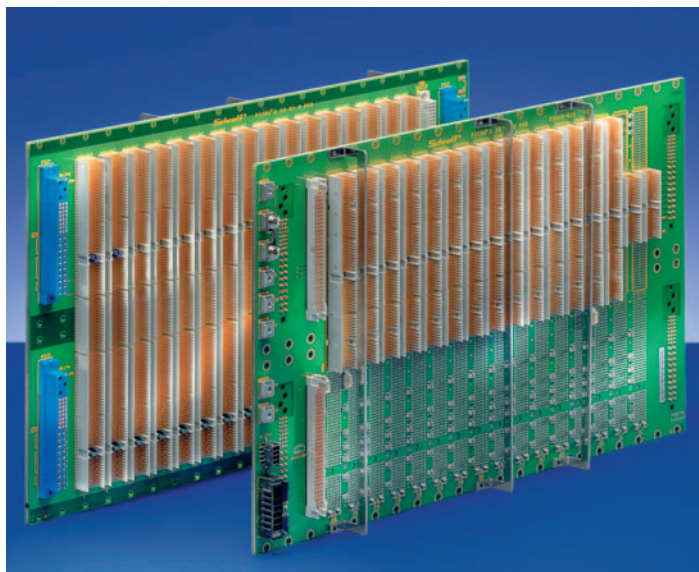


For further information www.schroff.biz/oneclick
oneClick code = Order no.



Backplanes – CompactPCI bus

cPSB and H.110 backplanes



12402005

- In accordance with:
 - PICMG 2.0 R 3.0 CPCI Core specification
 - PICMG 2.1 R 2.0 Hot Swap specification
 - PICMG 2.9 R 1.0 System Management specification
 - PICMG 2.16 R1.0 CPCI Packet Switching Backplane specification
- Outstanding high-frequency noise suppression and very high MTBF values due to ceramic capacitors
- VI/O with bridge adjustable to +5 V (default) or +3.3 V



Delivery comprises

Item	Qty	Description
1	1	Backplane, fully fitted

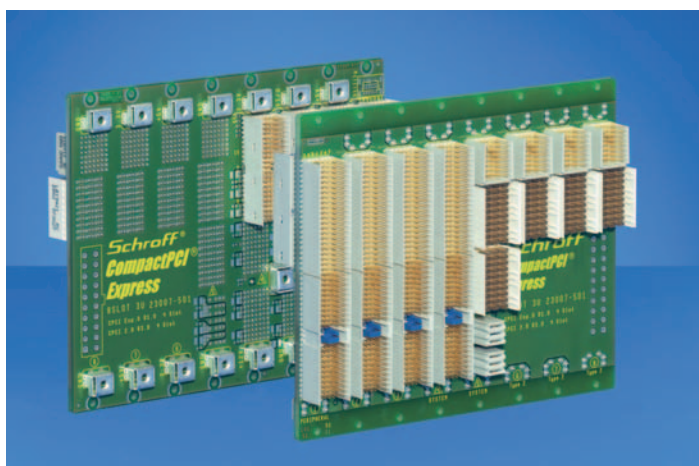
Order Information

Number of slots	Width mm	Height U	Description	Order no.
8	161.6	6	H.110	23006-601
16	426.0	6	cPSB	23006-610



For further information www.schroff.biz/oneclick
oneClick code = Order no.

CompactPCI express backplane



12406003

- In accordance with:
 - PICMG 2.0 R 3.0 CPCI Core specification
 - PICMG EXP.0 Rev. 1.0

Order Information

Number of slots	Width mm	Height U	Description	Order no.
8	162.0	3	4 legacy CPCI slots, system slot on the right, 1 CPCIe system slot, 3 CPCIe peripheral slots type 2	23007-501

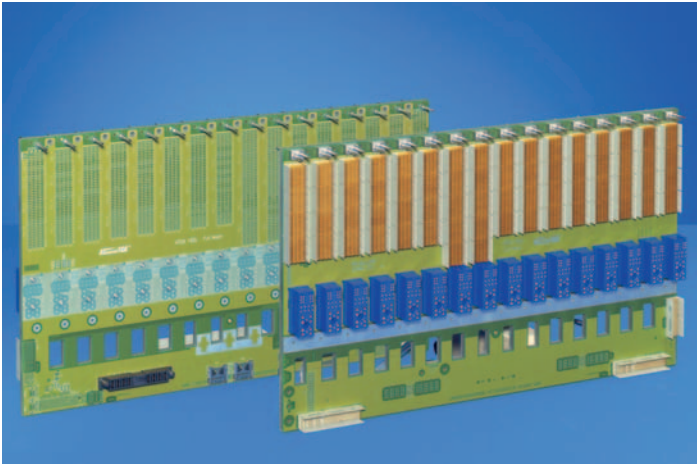


For further information www.schroff.biz/oneclick
oneClick code = Order no.



Backplanes – AdvancedTCA

AdvancedTCA backplane



Full mesh

12606003

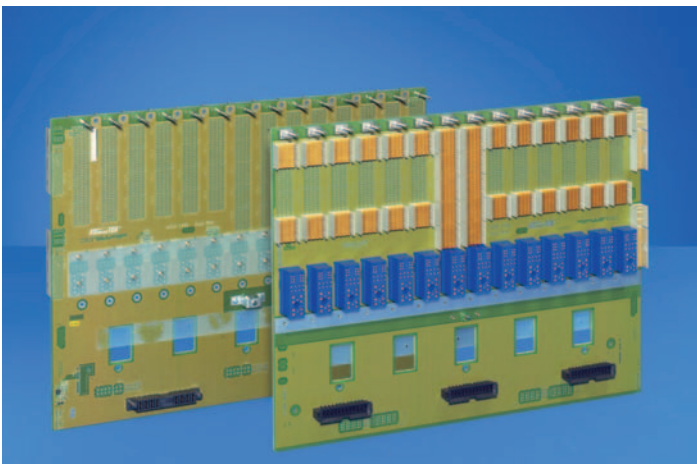
- In accordance with PICMG 3.0 ATCA Core specification (ATCA = Advanced Telecom Computing Architecture)
- Full mesh and dual star topologies
- 4 ports per link
- Slot positions for 2 redundant Shelf Management Controllers
- Plug for fan tray integrated backplane

Delivery comprises

Item	Qty	Description
1	1	Backplane, fully fitted

Order Information

Number of slots	Description	IPMI	Order no.
5	Full mesh	radial	23005-329
5	Full mesh	bussed	23005-331
14	Dual star	bussed	23005-315
14	Full mesh	bussed	23005-327
14	Dual star	radial	23005-320
14	Full mesh	radial	23005-328
14	Dual star	radial	23005-330
14	Dual star	radial	23005-316
14	Ring / Daisy Chain	–	23005-317
16	Dual star	bussed	23005-325
16	Full mesh	bussed	23005-321
16	Dual star	radial	23005-326
16	Dual star	radial	23005-323
16	Full mesh	radial	23005-322



Dual star

12606002

MicroTCA backplane



12606001

- In accordance with:
 - PICMG μ TCA D0.9
- Special topologies for research applications

Delivery comprises

Item	Qty	Description
1	1	Backplane, fully fitted

Order Information

Description	Order no.
10 slots AMC full height, 2 redundant hub (MCH slots), 2 power module slots (PM)	23005-406
8 full height slots, 4 half height slots, 2 hub (MCH slots), 2 power module slots (PM)	23005-407

- Further information on the internet

Backplanes – Power backplanes

Power bus backplane with P 47 connector



11902001

- In accordance with:
 - PICMG 2.9 System Management specification
 - PICMG 2.11 Compact PCI Power Interface specification
- Can be switched in parallel, PSU status signal FAL# and DEG# can be read out separately
- Geographic address can be set
- Mains supply via crimp contacts which snap into the connector; no mains/line voltage on the backplane



Delivery comprises

Item	Qty	Description
1	1	Backplane with P 47 connector
2	1	Input voltage cable harness, Positronic crimp sleeve – open end, length 500 mm
3	1	Output voltage cable harness, ATX ring tag, length 250 mm
4	3	Faston crimp sleeve for input cable harness



11901002

Order Information

Number of slots	Width mm	Height U	Description	Order no.
1	39.6	3	1 connector position P47	23098-105
2	80.3	3	2 connector positions P47 (side-by-side)	23098-115
1	39.6	6	1 onnector position P47 top	23098-116
1	39.6	6	2 connector positions P47 (one above the other)	23098-117

Note

- Signal cable set: IPMI cable, remote/sense cable, utility/sense cable available on request
- Power backplanes with M 24 connector available on request

Power piggyback



12401002

- Is used for connection of pluggable power supplies, e.g. ATX power supplies on CompactPCI backplanes
- Is simply assembled onto the screw connections of the power supply on the rear side of Schroff CompactPCI backplanes

Order Information

Description	Qty	Order no.
Power piggyback	1	23098-100

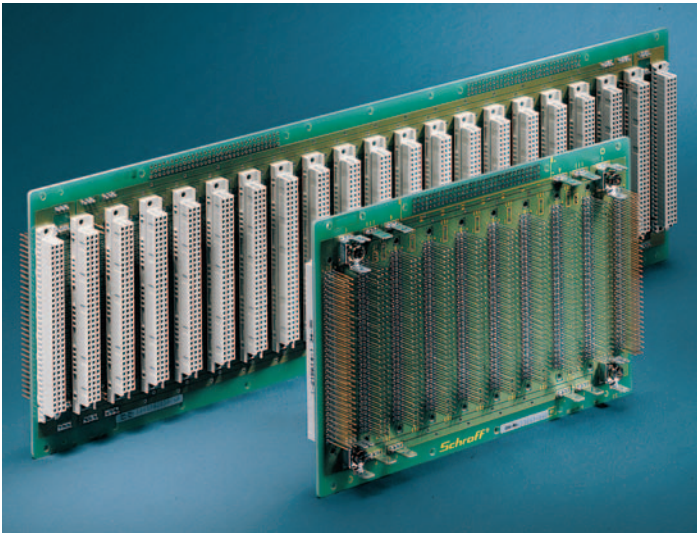


For further information www.schroff.biz/oneclick
oneClick code = Order no.



Backplanes – Universal

Backplane with through-connected signal lines, 3 U



12096003

- Power supply at each connector position (row 1 + 32)
- Adaption fields for connections
- Two versions:
 - 60 signal lines through-connected from connector to connector (C64), with C96 connector row "b", can be freely wired (2-layer) wire wrap
 - 90 signal lines through-connected from connector to connector (4-layer)

Delivery comprises

Item	Qty	Description
1	1	Backplane
2	10	Bridge, grid dimension 5.08 mm
3	3	Jumper
4	1	10-pin male connector

Order Information

Number of layers	Slot distance	Number of slots	Width	Connector type	Order no.
	HP		HP		
2	4	10	42	C64F	23007-010
2	4	10	42	C96F	23007-040
2	4	21	84	C64F	23007-021
2	4	21	84	C96F	23007-051
2	4	21	84		23007-081
2	3	14	42	C64F	23007-114
2	3	14	42	C96F	23007-144
2	3	28	84	C64F	23007-128
2	3	28	84	C96F	23007-158
2	3	28	84		23007-188
4	4	10	42	C96F	23007-410
4	4	21	84	C96F	23007-421

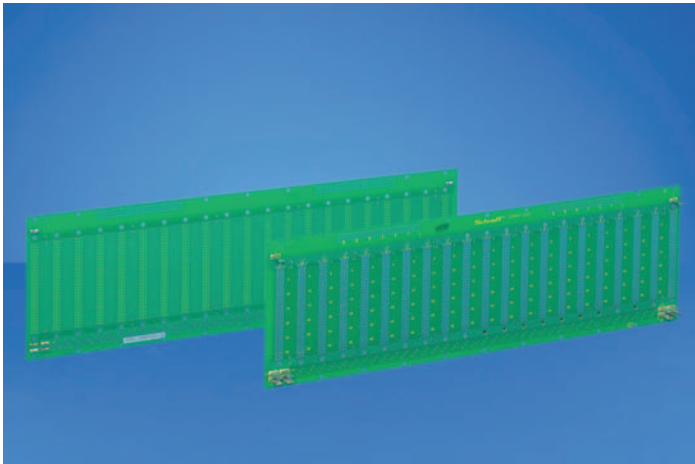
Connector type "-": not fitted, 96 solder points



For further information www.schroff.biz/oneclick
oneClick code = Order no.

Backplanes – Universal

Backplane without through-connected signal lines



- Individual wiring of connectors possible, as signal lines are not through-connected
- Power supply at each slot (row 1 + 32)
- Adaption fields for connections

Delivery comprises

Item	Qty	Description
1	1	Backplane (without connector)
2	10	Bridge, grid dimension 5.08 mm
3	3	Jumper
4	1	10-pin male connector

Order Information

Number of layers	Slot distance HP	Number of slots	Width HP	Order no.
2	4	21	84	23007-222



For further information www.schroff.biz/oneclick
oneClick code = Order no.