

# **CONNECT AND PROTECT**

# **Backplanes and Test Adapters**

12/2022





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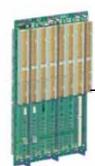
# **CompactPCI Serial**



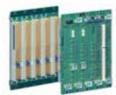
# **CompactPCI PlusIO**







# CompactPCI backplanes and bridges





CompactPCI, PSB and H.110 backplanes







PXI / PXIe backplanes

**VPX** backplanes

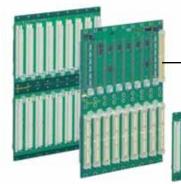


10506002 10502001 10508008 12406002 12406001 12406004 12402004



VME64x backplanes

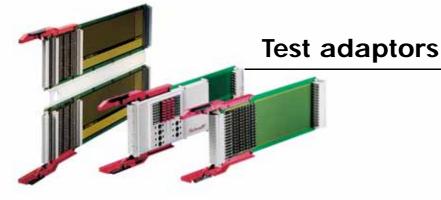






Power and universal backplanes





36106010 (12402005 12606003 12406003 12606005 12096003 11902001 11192004 11100013 11100010)

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### **OUR COMPETENCE IN AN OVERVIEW**





Custom backplane



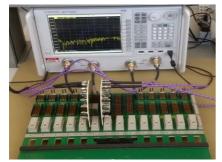
Project management



Development



Layout



Test laboratory

# Comprehensive standard backplane programme

AdvancedTCA - MicroTCA - CompactPCI - CompactPCI Serial - PXIe - VPX - VME - Schroff offers you anextensive standard backplane programme that is already ideally matched toyour requirements. Should you still not find your backplane in our range, wecan develop or modify to create your tailor-made backplane, quickly and onattractive terms. All our developing and manufacturing is done in-house and competent personnel are available at any time to deal with technical questions, quotes and project support.

# **Custom development to customer requirements**

From minor modifications to our standard backplanes through to specific form factors and connection topologies, Schroff has the right solution for you

# One contact partner as customer interface

Competent personnel are available at any time for technical questions, quotes, project support and after-sales care. If you wish, we are also happy to help you generate the specification

for your custom backplane. Contact at an early stage between our technical staff and our customers helps us to develop cost-optimised projects that meet all our customers' requirements.

# Many years of experience

60 years of experience, continual fundamental research and innovation in the backplane sector. Active participation in standards committees and in the specification of new system architectures and high-speed transmission technologies.

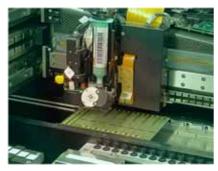
# Modern design tools

Modern simulation tools and measurement equipment plus inhouse developed high-performance test adaptors. Development of new technologies and topologies using high-speed measurements performed inhouse.

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#### **OUR COMPETENCE IN AN OVERVIEW**



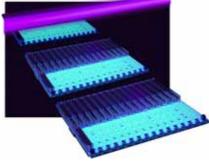
Solder paste printing



Automatic optical inspection (AOI)



Connector mounting



Conformal coating



Electrical final test

#### Modern machine facilities in Straubenhardt

**Solder paste printing** is one of the quality-defining process steps in backplane manufacture. This solder-paste printer, based on innovative inkjet technology, allows fast, flexible and highly dependable solder paste printing. Since the process dispenses with the 'stencils' required by other methods, the printing program can be changed in a very short time. This means that small batches can also be printed cost-effectively.

Our modern SMD placement machines support a wide spectrum of components with a high placement performance. Small and large production runs can be implemented flexibly and time-efficiently.

Vapour-phase soldering, also known as vapour-phase reflow, is currently the most universal and most reliable soldering process. It is ideally suited to all types of SMD component and carrier material. The homogenous temperature distribution of the carrier medium allows the widest variety of sub-assemblies, from Flexprints to multilayer boards, to be soldered reliably without danger of overheating.

There is also the option of processing conventional components with our wave-soldering system and our seletive wave-soldering system.

Automatic optical inspection (AOI) is an optical test procedure for sub-assemblies equipped with components. Highly-developed image processing systems reliably detect faulty soldered joints and wrongly placed or missing components.

Connectors are pressed into the backplane fully automatically. The **press-in technique** allows quick and economic mounting of the connector without subjecting the PCB to thermal stress. The press-in action creates a gas-tight, dependably electrically conductive and mechanically strong connection. Intelligent force/ displacement measuring during the press-in action ensures consistent high quality.

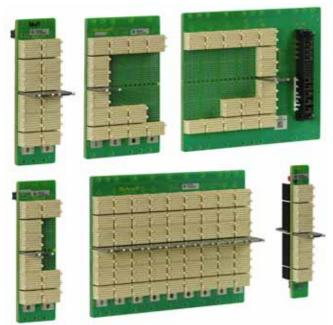
Backplanes and boards that are subject to particular climatic stresses can be coated with a protective lacquer (conformal coating). This coating protects the backplane from e.g. corrosion and mould. The fluorescent characteristic of the protective coating enables the coating to be checked for completeness or damage under UV light. The protective lacguer used on our automated coating machine is UL 94 V0 compliant, halogen free and conform to EN 45545-2, (HL1...HL3, R25)

No backplane leaves our production facility without 100% testing. All backplanes are subjected to extensive electrical testing before despatch. An automatic process checks the entire backplane for continuity and short circuits. This testing also covers passive and simple active components such as resistors, capacitors and diodes and the description and testing of I2C EEPROMS or bus terminations. For this Schroff has a comprehensive automated and semi-automated testing facility.



# Backplanes - CompactPCI Serial

# **COMPACTPCI SERIAL BACKPLANES**



- Conforms to PICMG CompactPCI Serial (CPCI-S.0 R2.0) specification
- 1 system slot and 0 ... 8 peripheral slots
- Supports PCle (Gen3), USB 2.0 and USB 3.0, S-ATA (II & Rev. 3.0) and Ethernet (10GBase-T)
- PCIe: Up to two 8 x lanes and up to six 4 x lanes
- Powerbugs for +12 V payload voltage and Minifit plug for +5 V standby voltage
- Utility connector on rear of backplane
- Mechanical centering and keying/coding strip in stainless steel on every fully equipped front and rear slot
- PICMG 2.9 IPMB plug can be fitted on request

#### **DELIVERY INCLUDES**

Item	Qty	Description
1	1	CompactPCI Serial backplane
2	1	Screw kit, M4 x 6, with lock washer; for connecting power to powerbugs

12415020

#### ORDER INFORMATION

Height U	Number of slots	System slot	Topology GbE	I/O at rear	Width mm	Description	Part no.
3	1	_	-	Yes	19.3	J1 plug for power, J2J5, RP2RP5 for rear I/O	23007-661
3	1	-	-	No	19.3	J1 plug for power	23007-621
3	1	-	Rear I/O on RP6	Yes	19.3	J1 plug for power, J2J6, RP2RP6 for rear I/O	23007-681
3	1	-	Rear I/O on RP6	No	19.3	J1 plug for power, J6, RP6 for rear I/O	23007-641
3	2	Left	Full mesh	Yes	39.6	For Ethernet single star and full-mesh applications	23007-682
3	2	Left	Full mesh	No	39.6	For Ethernet single star and full-mesh applications	23007-642
3	3	Left	Full mesh	No	60.0	For Ethernet single star and full-mesh applications	23007-643
3	3	Left	Full mesh	Yes	60.0	For Ethernet single star and full-mesh applications	23007-683
3	3	Right	Full mesh	Yes	60.0	For Ethernet single star and full-mesh applications	23007-693
3	3	Right	Full mesh	No	60.0	For Ethernet single star and full-mesh applications	23007-653
3	4	Left	Full mesh	Yes	80.3	For Ethernet single star and full-mesh applications	23007-684
3	4	Left	Full mesh	No	80.3	For Ethernet single star and full-mesh applications	23007-644
3	4	Right	Full mesh	No	80.3	For Ethernet single star and full-mesh applications	23007-654
3	4	Right	Full mesh	Yes	80.3	For Ethernet single star and full-mesh applications	23007-694
3	5	Left	Full mesh	Yes	100.6	For Ethernet single star and full-mesh applications	23007-685
3	5	Left	Full mesh	No	100.6	For Ethernet single star and full-mesh applications	23007-645
3	5	Right	Full mesh	Yes	100.6	For Ethernet single star and full-mesh applications	23007-695
3	5	Right	Full mesh	No	100.6	For Ethernet single star and full-mesh applications	23007-655
3	5	Right	Full mesh	Yes	159.9	Additional slot for one CompactPCI Serial PSU (3 U, 8 HP)	23007-615
3	5	Right	Full mesh	No	159.9	Additional slot for one CompactPCI Serial PSU (3 U, 8 HP)	23007-605
3	6	Right	Single star	No	120.9	For Ethernet single-star applications	23007-636
3	6	Right	Single star	Yes	120.9	For Ethernet single-star applications	23007-676
3	7	Left	Single star	No	141.2	For Ethernet single-star applications	23007-627
3	7	Left	Single star	Yes	141.2	For Ethernet single-star applications	23007-667
3	7	Right	Single star	No	141.2	For Ethernet single-star applications	23007-637
3	7	Right	Single star	Yes	141.2	For Ethernet single-star applications	23007-677
3	8	Left	Single star	No	161.6	For Ethernet single-star applications	23007-628
3	8	Left	Single star	Yes	161.6	For Ethernet single-star applications	23007-668
3	9	Left	Single star	Yes	181.9	For Ethernet single-star applications	23007-669
3	9	Left	Single star	No	181.9	For Ethernet single-star applications	23007-629
3	9	Right	Single star	Yes	181.9	For Ethernet single-star applications	23007-679
3	9	Right	Single star	No	181.9	For Ethernet single-star applications	23007-639
3	9	Left	Full mesh	Yes	181.9	For Ethernet single-star applications	23007-689
3	9	Left	Full mesh	No	191.9	For Ethernet single-star applications	23007-649

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# Backplanes - CompactPCI Serial

# COMPACTPCI SERIAL POWER BACKPLANE







Application: Power backplane (left), CompactPCI Serial backplane (right) and connection via power adapter board (below)

- Power backplane for pluggable PSUs with FCI Power Blade plug
- · 3 U, 8 HP, 1 PSU connector
- · Separate inputs for AC and DC with Fastons
- Connector for 12 V, 5 V standby, utility signals, current sharing, power button, serial console to a UPS and digital I/O at the rear
- Optionally, the PICMG 2.9 SMBus plug and additional powerbugs for 12 V and 5 V standby can be fitted
- · Geographical address can be set by means of a DIP switch

#### **DELIVERY INCLUDES**

Item	Qty	Description
1	1	CompactPCI Serial power backplane

### **ORDER INFORMATION**

12415010

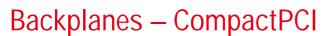
Height	Number of slots	Width	Part no.
U		mm	
3	1	38.9	23098-397

### ACCESSORIES FOR COMPACTPCI BACKPLANES

- Cable sets for connecting power and status signals of CompactPCI Serial backplanes and power backplanes
- Power adapter boards for simple connection of 12 V main supply voltage between CompactPCI Serial backplanes and power backplanes

#### **ORDER INFORMATION**

Utility cable, single conductors, 600 mm, 1 x 10-pin Micro-Match 1 piece	23204-852
Utility flat ribbon cable, 650 mm, 4 x 10-pin Micro-Match 1 piece	23204-875
Standby cable, single conductors, 600 mm, 1 x 4-pin Microfit to 2 x ring cable eye 1 piece	23204-853
Standby cable, single conductors, 400 mm, 3 x 4-pin Microfit 1 piece	23204-866
Current-sharing flat ribbon cable, 150 mm, 2 x 4-pin Micro-Match 1 piece	23204-867
Power connection cable, for 1-slot backplane, single conductors, 600 mm, 1 x 6-pin Microfit to 2 x ring cable eye and 1 x 4-pin Microfit 1 piece	23204-869
Power connection cable, backplane to backplane, single conductors, 300 mm, 2 x ring cable eye to 2 x ring cable eye 1 piece	23204-879
AC input cable, single conductors, 500 mm, 3 x blade receptacles, open end 1 piece	23204-880
DC input cable, single conductors, 500 mm, 3 x blade receptacles, open end 1 piece	23204-881
CompactPCI Serial power backplane, 3 U, 8 HP, 1 slot 1 piece	23098-397
Power adapter board, 3 x V <sub>1</sub> , 3 x V <sub>2</sub> , 121212 1 piece	23098-399
Power adapter board, 2 x V <sub>1</sub> , 2 x V <sub>2</sub> , 1212 1 piece	23098-400
Power adapter board, 3 x V <sub>1</sub> , 3 x V <sub>2</sub> , 122121 1 piece	23098-401
Power adapter board, 2 x V <sub>1</sub> , 2 x V <sub>2</sub> , 1221 1 piece	23098-402



# **SCHROFF**

### **COMPACTPCI PLUS IO**

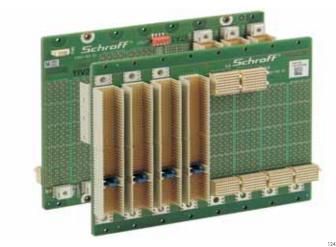
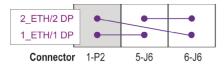
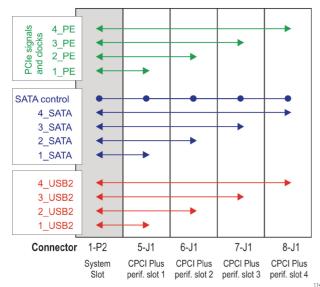
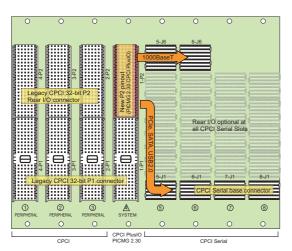


Photo shows 23007-601





Topology shows 23007-601



Front view

- · In accordance with:
- PICMG 2.0 R3.0 CompactPCI Core Specification
- PICMG 2.1 R2.0 Hot-Swap Specification
- PICMG 2.9 R1.0 System Management Bus Specification
- PICMG 2.10 R1.0 Keying Specification
- PICMG 2.30 R1.0 CompactPCI PlusIO specification
- PICMG CompactPCI Serial (CPCI-S.0 R1.0) specification
- System slot in accordance with PICMG 2.30, 32-bit CPCI bus on P1, PCIe, S-ATA, USB & Ethernet on P2
- · CompactPCI peripheral slots, 32 bit with rear I/O on P2
- CompactPCI Serial peripheral slots with PCIe x1, S-ATA and USB
- Full-mesh Ethernet on system slot and 2 CompactPCI Serial slots, supports 1000Base-T and 10GBase-T
- Rear I/O on the CompactPCI Serial slots available on request
- V(I/O) can be set to 3.3 V or 5 V (preset to 5 V)

#### **DELIVERY COMPRISES**

Item	Qty	Description
1	1	CompactPCI Plus I O Backplane
2	1	Set of screws, M4x6, with lock washer; to attach the power connection cable to the power bugs

#### ORDER INFORMATION

Number of slots	Width	Height	Part no.
	mm	U	
3 CPCI + 2 CPCI Serial	102.2	3	23007-602
4 CPCI + 4 CPCI Serial	161.3	3	23007-601
Accessories			
SM bus/IPMB cable 4 individual length 750 mm, 1 piece	23204-113		
Utility cable MicroMatch with s piece	23204-812		
Utility cable MicroMatch with f piece	23204-811		
Screws, washers for backplane	mounting		Page 10.25

10.6 | nVent.com/SCHROFF Schroff Product Catalog 12 / 2022



### COMPACTPCI BACKPLANE WITH SYSTEM SLOT RIGHT

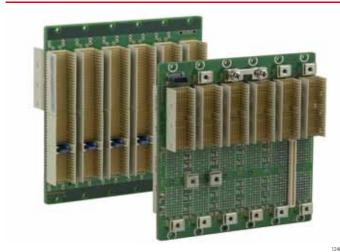
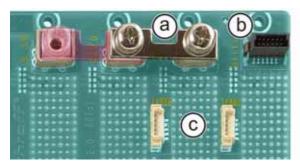


Photo shows 23006-816



a: V(I/O) bridge; b: Utility connector; c: IPMB connector

- · In accordance with
  - PICMG 2.0 R3.0 CompactPCI Core specification
  - PICMG 2.1 R2.0 Hot Swap specification
- PICMG 2.9 R1.0 System Management Bus specification
- PICMG 2.10 R1.0 Keying specification
- Versions: 3 U 32-bit and 64-bit, 6 U 64-bit, with system slot right
- V(I/O) adjustable to +3.3 V or +5 V (see photo)
- Backplanes up to 5 slot are 66 MHz capable, 6 to 8 slot backplanes are set for 33 MHz operation
- Outstanding high-frequency noise suppression and very high MTBF values due to ceramic capacitors
- Digital GND can be connected to/isolated from chassis GND by means of screws
- Infeed of supply voltages via powerbugs (ring tag M4), FASTONs
- Utility plug for status signals (SMCQ)
- Intelligent platform management bus (IPMB) connector to PICMG 2.9

#### **DELIVERY COMPRISES**

Item	Qty	Description
1	1	CompactPCI backplane, system slot right, coding tab and V (I/O) bridge, fitted
2	1	Set of 6 M4 bolts, with lock washer; for power connection

#### NOTE

- 4 to 7 slot backplanes can be used as primary backplane with bridge
- Types marked with an asterisk \* are available on request
- CompactPCI backplanes and secondary bridges see from page 10.10

#### ORDER INFORMATION

Number	Width	3 U, 32-bit, Compa	actPCI backplane	3 U, 64-bit, Compa	actPCI backplane	6 U, 64-bit, Compa	actPCI backplane
of slots	mm	3.3 V V(I/O)	5 V V(I/O)	3.3 V V(I/O)	5 V V(I/O)	3.3 V V(I/O)	5 V V(I/O)
Y		Part no.	Part no.	Part no.	Part no.	Part no.	Part no.
1	19.3	23006-331	23006-811	23006-331	23006-811	-*	_*
2	39.6	23006-332	23006-812	_*	_*	23006-372	23006-862
3	60.0	23006-303	23006-813	23006-353	23006-833	23006-373	23006-863
4	80.3	23006-334	23006-814	23006-354	23006-834	23006-374	23006-864
5	100.6	23006-301	23006-815	23006-355	23006-835	23006-375	23006-865
6	121.0	23006-336	23006-816	_*	_*	23006-376	23006-866
7	141.2	23006-337	23006-817	-*	_*	23006-377	23006-867
8	161.6	23006-300	23006-818	23006-358	23006-838	23006-378	23006-868

#### Accessories

Utility cable SMCQ with flat ribbon cable, length 350 mm,2 × 12-pin female connector, 1 piece	23204-115
Utility cable SMCQ with flat ribbon cable, length 600 mm,2 × 12-pin female connector, 1 piece	23204-116
Termination adaptor, 64-bit bus for 8 slot CompactPCI backplane, 1 piece	23006-931
SM bus/IPMB cable 4 individual wires with SMB plug to open end, length 750 mm, 1 piece	23204-113
Power Piggyback usable with backplanes with 3 slots and up, 1 piece	23098-100
Power backplane with P47 connector	Page 10.16
Screws, washers for backplane mounting	Page 10.25



### COMPACTPCI BACKPLANE WITH SYSTEM SLOT LEFT

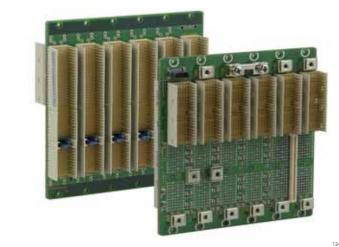
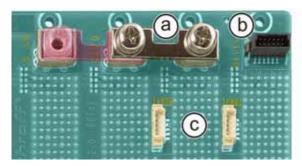


Photo shows 23006-816



a: V(I/O) bridge; b: Utility connector; c: IPMB connector

- · In accordance with
  - PICMG 2.0 R3.0 CompactPCI Core specification
  - PICMG 2.1 R2.0 Hot Swap specification
  - PICMG 2.9 R1.0 System Management Bus specification
  - PICMG 2.10 R1.0 Keying specification
- Versions: 3 U 32-bit and 64-bit, 6 HE 64-bit, with system slot left
- V(I/O) adjustable to +3.3 V or +5 V (see photo)
- Backplanes up to 5 slots are 66 MHz capable;
   6 to 8 slot backplanes are set for 33 MHz operation
- · Outer layers act as GND surfaces
- Outstanding high-frequency noise suppression and very high MTBF values due to ceramic capacitors
- Multiple backplanes can be placed together without loss of slots
- Digital GND can be connected to/isolated from chassis-GND by means of screws
- Infeed of supply voltages via powerbugs (ring tag M4), FASTONs
- Utility plug for status signals (SMCQ)
- Intelligent platform management bus (IPMB) connector to PICMG 2.9

# **DELIVERY COMPRISES**

Item	Qty	Description
1	1	CompactPCI backplane
2	1	Set of M4x6 bolts, with lock washer; for power connection

#### 02

### NOTE

- 4 to 7 slot backplanes can be used as primary backplane with bridge (bridge for system slot left available on request)
- Types marked with an asterisk \* are available on request

#### ORDER INFORMATION

Number of	Width	3 U, 32-bit, CompactPC	l backplane	3 U, 64-bit, CompactPCI	backplane	6 U, 64-bit, CompactPCI	backplane
slots	mm	3.3 V V(I/O)	5 V V(I/O)	3.3 V V(I/O)	5 V V(I/O)	3.3 V V(I/O)	5 V V(I/O)
		Part no.	Part no.	Part no.	Part no.	Part no.	Part no.
1	19.3	23006-331	23006-811	23006-331	23006-811	-*	_*
2	39.6	-*	_*	23006-422	23006-732	_*	_*
3	39.6	-*	_*	23006-423	23006-733	23006-443	23006-763
4	80.3	-*	23006-714	23006-424	23006-734	23006-444	23006-764
5	100.6	23006-405	23006-715	_*	_*	23006-445	23006-765
6	121.0	23006-406	23006-716	-	_	_*	_*
8	161.6	23006-408	23006-718	23006-428	23006-738	23006-448	23006-768

#### Accessories

Utility cable SMCQ with flat ribbon cable, length 350 mm,2 × 12-pin female connector, 1 piece	23204-115
Utility cable SMCQ with flat ribbon cable, length 600 mm,2 x 12-pin female connector, 1 piece	23204-116
Termination adaptor, 64-bit bus for 8 slot CompactPCI backplane, 1 piece	23006-931
SM bus/IPMB cable 4 individual wires with SMB plug to open end, length 750 mm, 1 piece	23204-113
Screws, washers for backplane mounting	Page 10.25

10.8 | nVent.com/SCHROFF



# COMPACT PCI, PACKAGING SWITCHING AND H.110 BACKPLANE



Photo shows 23006-797, 9 U

- · In accordance with
  - PICMG 2.0 R3.0 CompactPCI Core specification
  - PICMG 2.1 R2.0 Hot Swap specification
  - PICMG 2.9 R1.0 System Management Bus specification
  - PICMG 2.10 R1.0 Keying specification
  - PICMG 2.5 Computer Telephony specification (H.110)
  - PICMG 2.16 CompactPCI Packet Switching Backplanes
  - PICMG 2.11 CompactPCI Power Interface specification
- · Various versions
  - CompactPCI, Packet Switching, H.110
  - Backplanes for horizontal installation and backplanes for horizontal installation including slots for plug-in power supply (P47)
- V(I/O) can be set to +3.3 V or +5 V
- Backplanes up to 5 slots are 66 MHz capable, 6 to 8 slot backplanes are set for 33 MHz operation
- · Outer layers act as GND surfaces
- Outstanding high frequency noise suppression and very high MTBF values due to ceramic capacitors
- Digital GND can be connected to/isolated from chassis GND by means of screws
- Utility plug for status signals
- Intelligent platform management bus (IPMB) connector to PICMG 2.9

#### **DELIVERY COMPRISES**

Item	Qty	Description
1	1	Compact PCI backplane
2	1	Set of M4x6 bolts, with lock washer; for power connection

#### NOTE

• Types marked with an asterisk \* are available on request

# ORDER INFORMATION

Number of slots	CompactPCI backplanes	Power connector	Data connection	Part no.
2	System slot left, for horizontal mounting	ATX (male) connector	64-bit CompactPCI bus	23006-792
2	System slot left, for horizontal mounting	Mini-fit 10-pin	64-bit CompactPCI bus	23006-793
2	System slot left, for horizontal mounting	1 x P47	64-bit CompactPCI bus	23006-794
4	System slot left, for horizontal mounting	Mini-fit 24-pin	64-bit CompactPCI bus	23006-799
4	System slot left, for horizontal mounting	2 x P47	64-bit CompactPCI bus	23006-795
6	System slot left, for horizontal mounting	Mini-fit 24 pin	64-bit CompactPCI bus	23006-798
6	System slot left, for horizontal mounting	2 x P47 (optional third connector)	64-bit CompactPCI bus	23006-796
8	System slot left, for horizontal mounting	2 x P47 (optional third and fourth connectors)	64-bit CompactPCI bus	23006-797
8	System slot left, for horizontal mounting	2 x P47 (optional third and fourth connectors)	64-bit CompactPCI bus, H.110 bus, PSB	23006-611
8	System slot right, for 6 U CompactPCI system, power input without loss of slot space	Powerbugs	64-bit CompactPCI bus, H.110 bus	23006-601

### **COMPACTPCI BRIDGES**





Photo shows 32-bit bridge

- · In accordance with
  - PICMG 2.6 CompactPCI Bridging Specification
  - PCI 2.1 PCI Local Bus Specification, Rev. 2.1
- Bridge mounted on rear of backplane, hence no loss of slots
- Very compact and low bridge shape, no interference with rear transition boards
- · Schroff CompactPCI backplanes with system slot right are used as primary backplane
- The 32-bit bridge is 33 MHz capable
- Bridges are designed for primary backplanes with system slot right; bridges for system slot left available on request
- A summary of possible backplane/bridge combinations can be found on the Schroff website

# **DELIVERY COMPRISES**

Item	Qty	Description
1	1	Compac PCI Bridge

### **ORDER INFORMATION**

Description	Part no.
CompactPCI bridge, 32 bit, 33 MHz, for system slot right	23006-920

#### NOTE

- · 32-bit system slot left on request
- 64-bit system slot left on request

# COMPACTPCI SECONDARY BACKPLANES, SYSTEM SLOT TO RIGHT



Photo shows primary and secondary backplane with inserted bridge and fitted rear transition board

- In accordance with
  - PICMG 2.0 R3.0 CompactPCI Core Specification
    PICMG 2.1 R2.0 Hot-swap Specification
- PICMG 2.9 R1.0 System Management Bus Specification PICMG 2.10 R1.0 Keying Specification
- · Secondary backplane for use behind the bridge
- A summary of possible backplane/bridge combinations can be found on the Schroff website
- · Secondary backplanes can also be used as tertiary backplanes; change of geographical address see user manual

# **DELIVERY COMPRISES**

Item	Qty	Description
1	1	CompactPCI backplane
2	1	Kit screws M4 x 6, with lock washers, for power connection

#### ORDER INFORMATION

Number of slots	Height U	Description	Part no.
4	3	32-bit	23006-824
7	3	32-bit	23006-827
Accessories			
Screws, washers for	or backplane mou	unting	Page 10.25



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# Backplanes - VPX

VPX BACKPLANE, 3 U and 6 U







- · In accordance with:
  - VITA 46.0 VPX base standard
  - VITA 46.3 Serial RapidIO on VPX
  - VITA 46.4 PCI Express on VPX Fabric Connector
  - VITA 46.7 Ethernet on VPX Fabric Connector
  - VITA 46.11 System Management on VPX
  - Version with rear I/O: VITA 46.10 Rear Transition Module for VPX
  - VITA 65.0 Open VPX, 2021
- JTAG connections
- M4 power studs for power supply, max. 22 A per slot for each voltage
- Lockable aux utility and sense connectors
- DIP switch for system slot settings

### **ORDER INFORMATION**

Description	Width mm	Slot pitch	Backplane type	Part no.
Open VPX backplane, 3 U, 7 slot, without rear I/O	186.5	1,0"	BKP3-CEN07	23001-814
Open VPX backplane, 3 U, 7 slot, with rear I/O	186.5	1,0"	BKP3-CEN07	23001-815
Open VPX backplane, 3 U, 9 slot, with rear I/O	253.0	1,0"	BKP3-CEN09	23001-834
Open VPX backplane, 6 U, 5 slot, with rear I/O	135.6	1,0"	BKP6-DIS05	23001-829
Open VPX backplane, 6 U, 10 slot, with rear I/O	262.6	1,0"	BKP6-CEN10	23001-816
VPX backplane, 3 U, 5 slot, without rear I/O	120.7	0,8"	Full Mesh	23001-812
VPX backplane, 3 U, 5 slot, with rear I/O	120.7	0,8"	Full Mesh	23001-813
Accessories				
Screws, washers for backplane	mounting		į į	Page 10.25

#### NOTE

• Backplane to VITA 46.10; rear transition modules on request



# Backplanes – VME64 extension

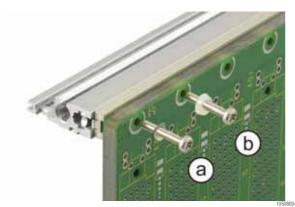
# **MONOLITHIC VME64X BACKPLANES (6 U)**



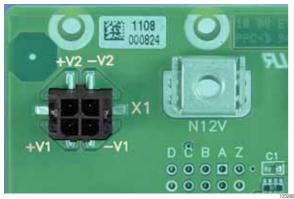
Photo shows 23001-551







Backplane mounting: a: conductive, b: isolated



Connector for additional voltages V1/V2

- · In accordance with: ANSI/VITA 1-1994 VME64 Standard ANSI/VITA 1.1-1997 VME64 Extension Standard ANSI/VITA 1.5-2003 VME2eSST Specification ANSI/VITA 1.7-2003 Increased Current Level ANSI/VITA 38 System Management on VME
- Monolithic backplane, 6 U with J1 and J2 plane
- · Termination passive
- Electronic automatic daisy chain (EDC)
- · Outstanding high-frequency noise suppression and very high MTBF values due to ceramic capacitors
- Connection or isolation between the digital GND and chassis GND can be effected via the screw fittings (see photo)
- Supply voltages can be applied via powerbugs (ring tag M4) or FASTON
- Utility connector for status signals
- System management bus (SMB) connector in accordance with VITA38
- Connector for additional voltages V1/V2 (see photo)

### **DELIVERY COMPRISES**

Item	Qty	Description
1	1	VME64x backplane
2	1	Kit screws M4 × 6, with lock washer; for power connection

#### **ORDER INFORMATION**

Number of slots	Width	Height	Without P0	With P0
	mm	U	Part no.	Part 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
6	120.5	6	23001-506	23001-536
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

#### Accessories

SM bus/IPMB cable 4 individual wires with SMB plug to open end, length 750 mm, 1 piece	23204-113
Utility cable SMCQ with flat ribbon cable, length 350 mm,2 $\times$ 12-pin female connector, 1 piece	23204-115
Utility cable SMCQ with flat ribbon cable, length 600 mm,2 $\times$ 12-pin female connector, 1 piece	23204-116
Screws, washers for backplane mounting	Page 10.25



# Backplanes - VMEbus

# MONOLITHIC J1/J2 BACKPLANE (6 U)

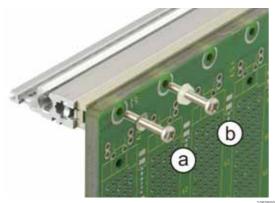




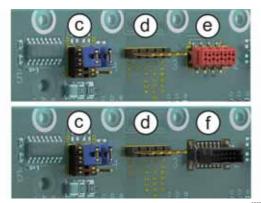
Photo shows 23001-069







Backplane mounting: a: conductive, b: isolated



c: termination switchover active/passive, d: utility connector 1, e: utility connector 2 MicroMatch, f: utility connector 2 SMCQ

- In accordance with ANSI/VITA 1-1994 VME64 standard
- Monolithic backplane, 6 U with J1 and J2 plane
- Active/passive termination switchable via jumpers; passive termination preset (see photo)
- Electronic automatic daisy chain (EDC)
- Outstanding high-frequency noise suppression and very high MTBF values due to ceramic capacitors
- Linking/separation of digital and chassis GNDs by means of a screw connection (see photo)
- Supply voltages provided via power bugs (ring tag M4) or FASTON
- Two utility connectors for status signals, two different configurations (see photo)

### **DELIVERY COMPRISES**

Item	Qty	Description	
1	1	VME monolithic J1/J2 backplane	
2	1	Kit screws M4x6, with lock washer, for power connection	

#### ORDER INFORMATION

Utility cable SMCQ with flat ribbon cable,

Screws, washers for backplane mounting

length 600 mm, 2 x 12-pin female connector, 1 piece

Number of	Width	Height	Utility connector 2	Part no.
slots	mm	U		
3	59.5	6	MicroMatch	23001-063
4	79.8	6	MicroMatch	23001-064
5	100.2	6	MicroMatch	23001-065
6	120.5	6	MicroMatch	23001-066
7	140.8	6	MicroMatch	23001-067
8	161.1	6	MicroMatch	23001-068
9	181.4	6	SMCQ	23001-069
10	201.8	6	MicroMatch	23001-070
12	242.4	6	MicroMatch	23001-072
20	405.0	6	SMCQ	23001-080
21	425.3	6	MicroMatch	23001-081
Accessories				
Utility cable M piece	23204-812			
Utility cable M piece	23204-811			
Utility cable S length 350 mr	23204-115			

23204-116

Page 10.25

# Backplanes - VMEbus

# J1 BACKPLANE (3 U)

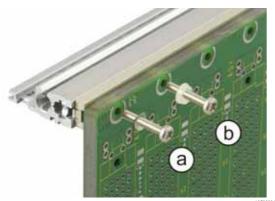




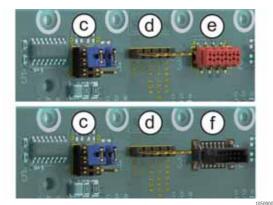
Photo shows 23001-020







Backplane mounting: a: conductive, b: isolated



c: termination switchover active/passive, d: utility connector 1, e: utility connector 2 MicroMatch, f: utility connector 2 SMCQ

- In accordance with ANSI/VITA 1-1994 VME64 standard
- 3 U with J1 plane
- Active/passive termination switchable via jumpers; passive termination preset (see photo)
- Electronic automatic daisy chain (EDC), Automatic daisy chain (ADC)
- Outstanding high-frequency noise suppression and very high MTBF values due to ceramic capacitors
- Linking/separation of digital and chassis GNDs by means of a screw connection (see photo)
- Supply voltages provided via power bugs (ring tag M4) or FASTON
- Two utility connectors for status signals, two different configurations (see photo)

#### **DELIVERY COMPRISES**

Item	Qty	Description
1	1	VME J1 backplane
2	1	Kit screws M4x6, with lock washer; for power connection

#### ORDER INFORMATION

NI I	ALC: DI	11.5.14	The transfer of the contract o	ъ.	5 .
Number	Width	Height	Utility connector 2	Part no.	Part no.
of slots	mm	U		EDC	ADC / MDC
1	20.2	3	-	23001-00	01 -
2	39.1	3	MicroMatch	23001-00	02 -
3	59.7	3	MicroMatch	23001-00	<b>23001-103</b>
4	79.8	3	MicroMatch	23001-00	<b>23</b> 001-104
5	100.2	3	MicroMatch	23001-00	<b>D5</b> 23001-105
6	120.5	3	MicroMatch	23001-00	<b>23</b> 001-106
7	140.8	3	SMCQ	23001-00	07 _
8	161.1	3	MicroMatch	23001-00	08 -
9	181.4	3	MicroMatch	23001-00	9 23001-109
10	199.2	3	SMCQ	23001-01	<b>10</b> 23001-110
12	242.4	3	SMCQ	23001-01	12 23001-112
13	260.0	3	MicroMatch	-	23001-113
15	303.4	3	MicroMatch	23001-01	15 -
17	341.4	3	MicroMatch	23001-01	7 -
18	364.3	3	MicroMatch	23001-01	8 -
20	405.0	3	MicroMatch	23001-02	20 23001-120
21	425.3	3	MicroMatch	23001-02	<b>21</b> 23001-121
Accesso	ries				
Utility ca	ble MicroN	latch with sir	ngle conductors, length	500 mm, 1	22204 012
piece					23204-812
Utility ca	ble MicroN	latch with fla	at ribbon cable, length 6	00 mm, 1	23204-811
piece					23204-011
,		with flat ribb			23204-115
			e connector, 1 piece		20204-113
-		with flat ribb			23204-116
length 60	00  mm  2  x	12-nin femal	e connector 1 niece		

Page 10.25

length 600 mm,2  $\times$  12-pin female connector, 1 piece

Screws, washers for backplane mounting

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J2 BACKPLANE (3 U)

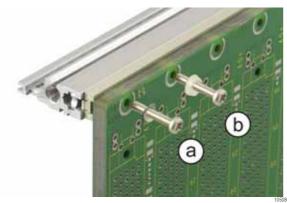




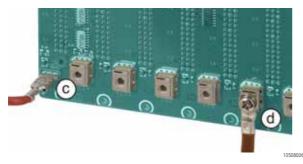
Photo shows 23001-046







Backplane mounting: a: conductive, b: isolated



Supply voltage feed: c: cable with blade receptacle pushed onto FASTON d: cable with ring tag screwed to powerbug, with M4 screw and lock wash-

- In accordance with ANSI/VITA 1-1994 VME64 standard
- · 3 U with J2 plane
- · Termination passive
- Outstanding high-frequency noise suppression and very high MTBF values due to ceramic capacitors
- · Multiple backplanes can be placed side by side without loss of slot space
- Connection or isolation between the digital GND and chassis GND can be effected via the screw fittings (see photo)
- Supply voltages can be provided via powerbugs (ring tag M4) or FASTONs (see photo)

### **DELIVERY COMPRISES**

Item	Qty	Description
1	1	VME J2 backplane
2	1	Set of 6 M4 bolts, with lock washer; for power connection

### **ORDER INFORMATION**

Number of slots	Width	Height	Part no.	
	mm	U		
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	
10	199.2	3	23001-040	
16	321.3	3	23001-046	
21	425.3	3	23001-051	
Accessories				
Screws, washers for	r backplane moui	nting	Page 10.25	

# **POWER BACKPLANE WITH P47 CONNECTOR**





- In accordance with: PICMG 2.11 R1.0 CompactPCI Power Interface specification and PICMG 2.9 R1.0 System Management Bus specification
- Single, parallel or redundant operation possible
- Direct current outlets for high currents with virtually no voltage reduction
- · Geographical address adjustable
- Power supply over crimp contacts insertable into the plug, no supply voltage on the backplane
- · Power cable available as an accessory
- DC outlets with powerbugs for extremely low drops in voltage

### **DELIVERY INCLUDES**

Item	Qty.	Description
1	1	Power backplane with P47 connector
2	1	Set, combination screw M4 x 6 in accordance with DIN 6900

#### **ORDER INFORMATION**

TTTGTTT	math	Trairiber of	1 Office dominedtor	ricigiit	Tareno.
HP	mm	slots		U	
8	39.6	1	1 x P47	3	23098-393
16	80.3	2	2 x P47	3	23098-394
8	39.6	1	1 x P47	6	23098-395
8	39.6	1	2 x P47	6	23098-396
Access	ories				
Power o	able 3-wir	re, 500 mm, 1 pie	ce		23204-110
Utility/sense cable Flat ribbon cable, length 350 mm, 2 x 12-pin female connector, 1 piece $$				x 12-pin	23204-115
-	ense cabl		le, length 600 mm, 2	x 12-pin	23204-116

SM bus/IPMB cable 4 individual wires with SMB plug to open end, length 750 mm, 1 piece
Current-sharing flat ribbon cable, 150 mm, 2 x 4-pin Micro-Match

1 piece
Utility cable MicroMatch with single conductors, length 600 mm, 1

piece Utility cable MicroMatch with flat ribbon cable, length 600 mm, 1

23204-811

23204-113

23204-867

23204-812

#### **POWER PIGGYBACK**



- Allows connection of pluggable power supplies, e.g. ATX PSUs, to CompactPCI backplanes
- Simply mounts on the PSU screw connections on the rear of Schroff CompactPCI backplanes

### **DELIVERY COMPRISES**

Item	Qty	Description
1	1	Power piggyback

## **ORDER INFORMATION**

Description	Qty/PU	Part no.
Power piggyback	1	23098-100

12401002

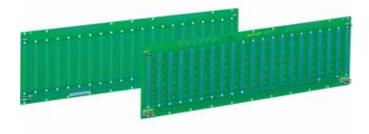
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### **UNIVERSAL BACKPLANES**



Universal backplanes with through-connected signal lines, 10 and 21 slot



Universal backplanes without through-connected signal lines, 21 slots

### With through-connected signal lines

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

# Without through-connected signal lines

- Individual wiring of connectors is possible since signal lines are not through-connected
- Power supply at each connector position (row 1 + 32)
- · Adaptation fields for connections

### **DELIVERY COMPRISES**

Item	Qty	Description
1	1	Universal backplane
2	10	Bridges, grid 5.08 mm
3	3	Jumpers
4	1	10-pin header

#### ORDER INFORMATION

# with through-connected signal lines

Number of slots	Slot pitch	Width	No. of layers	Connector type	No. of signal lines	Part no.
	HP	HP				
10	4	42	2	C64F	60	23007-010
10	4	42	2	C96F	60	23007-040
10	4	42	4	C96F	90	23007-410
14	3	42	2	C64F	60	23007-114
21	4	84	2	C64F	60	23007-021
21	4	84	2	C96F	60	23007-051
21	4	84	2	-	60	23007-081
21	4	84	4	C96F	90	23007-421
28	3	84	2	C64F	60	23007-128
28	3	84	2	C96F	60	23007-158
28	3	84	2	-	60	23007-188
Connecto	or "-": no	t equinn	ed 96 s	older noints		

:: not equipped, 96 solder points Connector

#### Accessories

Screws, washers for backplane mounting Page 10.25

# **TEST ADAPTORS, TYPE B**



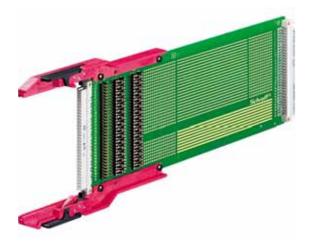
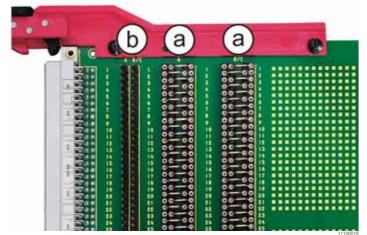


Photo shows 23021-607



a: Measuring field for current and voltage measurement b: Header for wire wrap

- For DIN 41612 connectors, type B
- Measuring field for current and voltage measurement (U/I), (a)
- Header with pin diameter 0.6 mm for wire wrap (b)
- Outer pin rows (pin 1a, c and pin 32a, c) with wider tracks for power supply (2 A per track)

# **DELIVERY COMPRISES**

Item	Qty	Description
1	1	Test adaptor with fitted guide rails and equipped test bridges
2	10	Replacement test bridges

### **ORDER INFORMATION**

Connector type	Height	For board depth	Backplane type	Measuring field for	Part no.
	U	mm			
B64	3	160	1L	U/I	23021-607
B64	3	220	1L	U/I	23021-651

# NOTE

- Detailed dimensions and test adaptor types see page 10.25
- 6/9 U test adaptors see page 10.23

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# **TEST ADAPTORS, TYPE C**



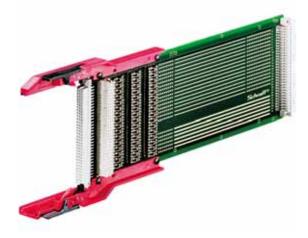
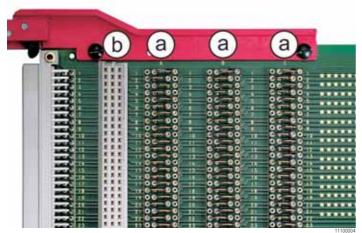


Photo shows 23021-609



a: Measuring field for current and voltage measurement b: Connector position for a second test object

- For DIN 41612 connectors, type C
- 2 different measuring fields:
  - current and voltage measurement (U/I): pluggable test bridges
  - voltage measurement (U): soldered test bridges
- · Connector type C64: Header with pin diameter 0.6 mm for wire wrap
- Connector type C96: Slot for second test unit or terminator board (b)
- Outer pin rows (C96: pin 1a, b, c and pin 32a, b, c; C64: pin 1a, c and pin 32a, c) with wider tracks for power supply (2 A per track)

### **DELIVERY COMPRISES**

Item	Qty	Description
1	1	Test adaptor with fitted guide rails and equipped test bridges
2	10	Replacement test bridges

### ORDER INFORMATION

Connector type	Height	For board depth	Backplane type	Measuring field for	Part no.
	U	mm			
C 64	3	160	1L	U/I	23021-608
C 64	3	220	2L	U / I	23021-652
C 64	6	160	1L	U/I	23022-601
C 96	3	160	2L	U	23021-603
C 96	3	160	2L	U / I	23021-609
C 96	3	160	4L	U / I	23021-610
C 96	3	220	2L	U / I	23021-653
C 96	3	220	4L	U/I	23021-654
C 96	3	280	2L	U / I	23021-700
C 96	3	280	4L	U / I	23021-701
C 96	3	340	4L	U / I	23021-750
C 96	6	160	2L	U/I	23022-602
C 96	6	160	4L	U / I	23022-603
C 96	6	220	2L	U/I	23022-652
C 96	6	280	2L	U/I	23022-700

### NOTE

- Detailed dimensions and test adaptor types see page 10.25
- 6/9 U test adaptors see page 10.23

# **TEST ADAPTORS, TYPE D**



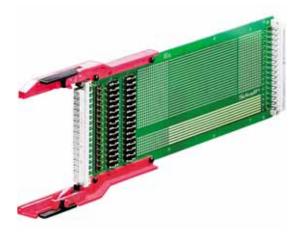
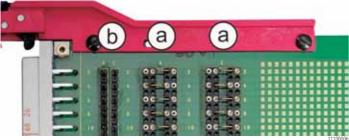


Photo shows 23021-611



a: Measuring field for current and voltage measurement b: Header for wire wrap

- For DIN 41612 connectors, type D
- 2 different measuring fields:
  - current and voltage measurement (U/I): pluggable test bridges
- voltage measurement (U): soldered test bridges
- Header with pin diameter 0.6 mm for wire wrap (b)
- Outer pin rows (pin 1a, c and pin 16a, c) with wider tracks for power supply (2 A per track)

#### **DELIVERY COMPRISES**

Item	Qty	Description
1	1	Test adaptor with fitted guide rails and equipped test bridges
2	10	Replacement test bridges

#### ORDER INFORMATION

Connector type	Height	For board depth	Backplane type	Measuring field for	Part no.
	U	mm			
D32	3	160	1L	U/I	23021-611
D32	3	160	1L	U	23021-604
D32	3	220	1L	U/I	23021-655

#### NOTE

- Test adaptor type D cannot be used in combination with the adapter of other types
- Detailed dimensions and test adaptor types see page 10.25

# **TEST ADAPTORS, TYPE E**

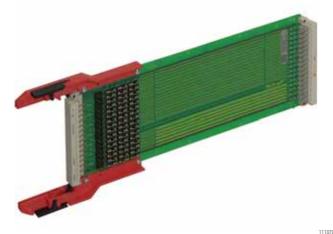
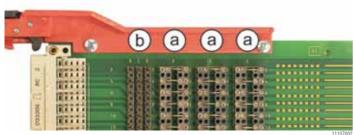


Photo shows 23021-656



a: Measuring field for current and voltage measurement b: Header for wire wrap

- For DIN 41612 connectors, type E
- Measuring field for current and voltage measurement (U/I), (a)
- Header with pin diameter 0.6 mm for wire wrap (b)
- Outer pin rows (pin 1a, c, e and pin 31a, c, e) with wider tracks for power supply (2 A per track)

#### **DELIVERY COMPRISES**

Item	Qty	Description
1	1	Test adaptor with fitted guide rails and equipped test bridges
2	10	Replacement test bridges

# ORDER INFORMATION

type	or Height U	For board depth mm	Backplane type	Measuring field for	Part no.
E48	3	220	2L	U/I	23021-656

# NOTE

- Detailed dimensions and test adaptor types see page 10.25
- 6/9 U test adaptors see page 10.23

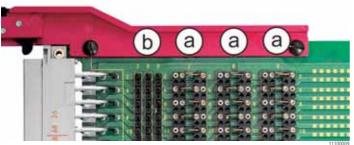
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# **TEST ADAPTORS, TYPE F**





Photo shows 23021-613



a: Measuring field for current and voltage measurement b: Header for wire

- For DIN 41612 connectors, type F
- 2 different measuring fields:
  - current and voltage measurement (U/I): pluggable test bridges
  - voltage measurement (V): soldered test bridges
- · Header with pin diameter 0.6 mm for wire wrap (b)
- Outer pin rows (pin 1a, c, e and pin 16a, c, e) with wider tracks for power supply (2 A per track)

#### **DELIVERY COMPRISES**

Item	Qty	Description
1	1	Test adaptor with fitted guide rails and equipped test bridges
2	10	Replacement bridges

#### **ORDER INFORMATION**

Connector type	Height	For board depth	Backplane type	Measuring field for	Part no.
	U	mm			
F48	3	160	2L	U	23021-605
F48	3	160	2L	U/I	23021-613
F48	6	160	2L	U/I	23022-604
F48	3	220	2L	U/I	23021-657

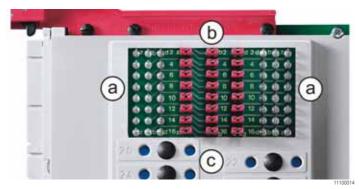
#### NOTE

- Detailed dimensions and test adaptor types see page 10.25
- Further 6/9 U test adaptors see page 10.23

# **TEST ADAPTORS, TYPE M**



Photo shows 23021-616



Test adaptor M (F24/H7), a: Measurement lugs, b: Measuring pin with jumper, c: Test bridge, diameter 4 mm

- For DIN 41612 connectors, type M
- M (F/H): with high-current contacts (H)
- Measuring field versions for current and voltage measurement (U/I):

F: measurement lugs (a) and measurement pins (b) with jumpers H: test bridges (c) (diameter 4 mm)

#### **DELIVERY COMPRISES**

Item	Qty	Description
1	1	Test adaptor with fitted guide rails and equipped test bridges
2	10	Replacement test bridges

#### **ORDER INFORMATION**

Connector type	Height	For board depth	Backplane type	Measuring field for	Part no.
	U	mm			
M (F24/H7)	3	160	2L	U/I	23021-616

### NOTE

Detailed dimensions and test adaptor types see page 10.25

# **TEST ADAPTORS FOR VMEBUS**



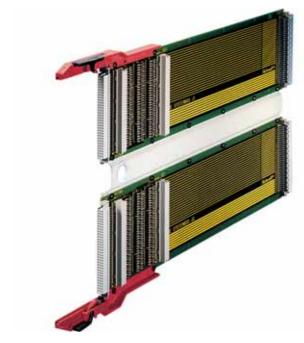
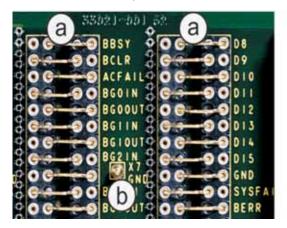
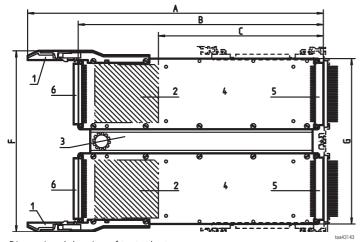


Photo shows 6 U test adaptor



a: measuring field for current and voltage measurement b: Measuring pin, e.g. for test prod



Dimensional drawing of test adaptor

- Layout of conductive tracks and layer build-up match the requirements of the VME bus
- Measuring field version for current and voltage measurement (V/I), (a)
- Additional measuring pins, e.g. for the probe tips of an oscilloscope (b)
- 1 pin position for second test object, 1 pin position for terminator board
- Voltage supply lines are designed for 2 A
- 6 U test adaptors consist of two 3 U test adaptors linked via an intermediate adaptor

### **DELIVERY COMPRISES**

Item	Qty	Description
1	1	Test adaptor with fitted guide rails and equipped test bridges
2	10	Replacement test bridges

### **ORDER INFORMATION**

Height	For board depth	Connecto	or type	Part no.
U	mm	P1	P2	
3	160	C96	-	23021-001
3	160	-	C96	23021-100
3	220	C96	-	23021-002
3	220	-	C96	23021-101
6	160	C96	C96	23022-002
6	220	C96	C96	23022-004
6	280	C96	C96	23022-010

P1 = system bus, P2 = I/O bus

#### NOTE

11192004

• 9 U test adaptor see page 10.23

# **DIMENSIONS TABLE VMEBUS TEST ADAPTORS**

3 U	123.65	100
6 U	257	233.35
-		

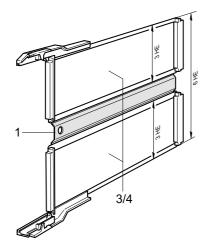
160 mm	423	350	237	175.24
220 mm	483	410	297	235.24
280 mm	543	470	417	355.24

A = overall length, B = extension

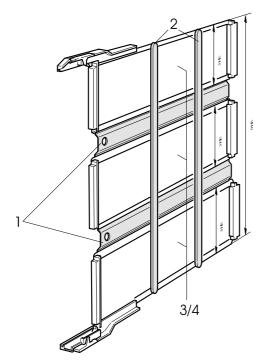
10.22 | nVent.com/SCHROFF Schroff Product Catalog 12 / 2022



# 6/9 U TEST ADAPTORS



9 U



- Suitable for types B, C, D, E, F
- 6 U test adaptor can be made from:
  - 2 × equal length 3 U test adaptors (3/4)
  - 1 × intermediate adaptor 6 U (1) or
  - 1 x 3 U test adaptor (3/4)
  - 1 × bare board (item 2 without connector)
  - 1 × intermediate adaptor 6 U (1)
- 9 U test adaptor can be made from:
  3 × equal length 3 U test adaptors (3/4)
  - 2 × intermediate adaptor 9 U (1)

  - 2 x 3 U test adaptors (3/4)
    1 x bare board (item 2 without connector)
  - 2 × intermediate adaptor 9 U (1) or other combinations test adaptor item 4, type x bare board: item 3

A4-2550

# **DELIVERY COMPRISES** (kit)

Item	Qty		Description
	6 U	9 U	
1	1	2	Intermediate adaptor, St, 1.5 mm, grey, incl. assembly kit
2	-	2	Board stiffener

### **ORDER INFORMATION**

Description	For board depth	For test adaptor depth (dimension B)	Part no.
	mm	mm	
6 U	160	290	20800-224
6 U	220	350	20800-168
6 U	280	410	20800-278
6 U	340	470	20800-279
9 U	220	350	23040-001

Accessories

#### NOTE

BPTE6567

- Test adaptor type D cannot be combined with other types
- Test adaptor depth (dimension B) of VMEbus test adaptors
- Test adaptor depth (dimension B) at type B, C, D, E, F, see page 10.25



# **BOARD GUIDES**



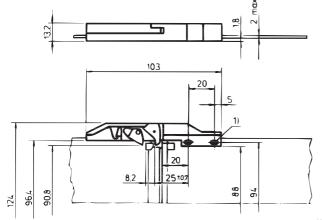
Top: with locking lever, left short, right long; bottom: without locking lever, left short, right long

- To hold and lock modules that have to be tested (for replacement purposes only, board guides are included in delivery of all test adaptors)

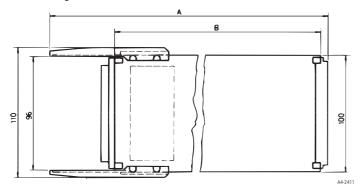
- Short board guide with/without locking leverLong board guide with/without locking lever

# **ORDER INFORMATION**

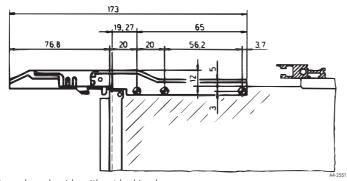
Description	Qty/PU	Part no.
Type: short, with locking lever	2	60800-834
Type: long, with locking lever	2	20800-212
Type: long, without locking lever	2	20800-213



Short board guide



Short board guide without locking lever A, B, see "Dimensions test adaptors"



Long board guide without locking lever

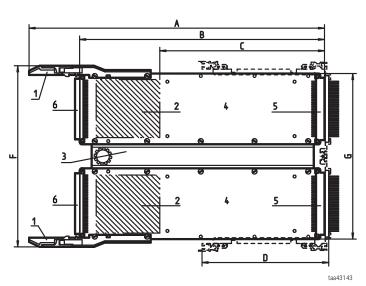
10.24 | nVent.com/SCHROFF SCHROFF PRODUCT CATALOG 12 / 2022

# **TYPE/BOARD VERSIONS**

Epoxy fibreglass EP-GC02 to DIN 40802 (FR4). Outlying connections (e.g. pins 1a, b, c and pins 32a, b, c) each have a wider PCB track or large-surface tracks on inner layers e.g. for shielding, V<sub>cc</sub>, GND.

Туре	
1L	PCB single-sided, laminated (suitable for up to 2 MHz)
2L	PCB, double-sided, laminated and through-connected (suitable for up to approx. 8 MHz)
4L	Multi-layer, 4-layer (suitable for above 8 MHz): Multi-layer technology with large-area inner layers (signal-surface-surface-signal). In the coax version the large-area inner layers can be soldered to the desired pins by means of power links.

# **DIMENSIONS TEST ADAPTORS**



• Types B, C, E, F, H and M

Board height	F	G
	mm	mm
3 U	123.00	100.00
6 U	257.00	233.35

Board depth	A	В	C	D
	mm	mm	mm	mm
160 mm	363	290	190	175.24
220 mm	423	350	250	235.24
280 mm	483	410	310	355.24
340 mm	543	470	370	415.24

- Board guide
- 2) Measuring field
- 3) Mounting bracket with extraction aid
- Test adaptor
- 5) Male connector
- Female connector

# **PANHEAD SCREWS**

	Description	Application	Material	Dimension	Qty/PU	Part no.
22245940	Torx panhead screw	For backplane fixing	St, nickel-plated	M2.5 x 12	100	24560-161
		For backplane fixing	St, nickel-plated	M2.5 x 14	100	24560-162
		For backplane fixing	St, nickel-plated	M2.5 x 16	100	24560-163
	Screw + securing washer (PA)	For backplane fixing	St, nickel-plated	M2.5 x 12	100	21100-777

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