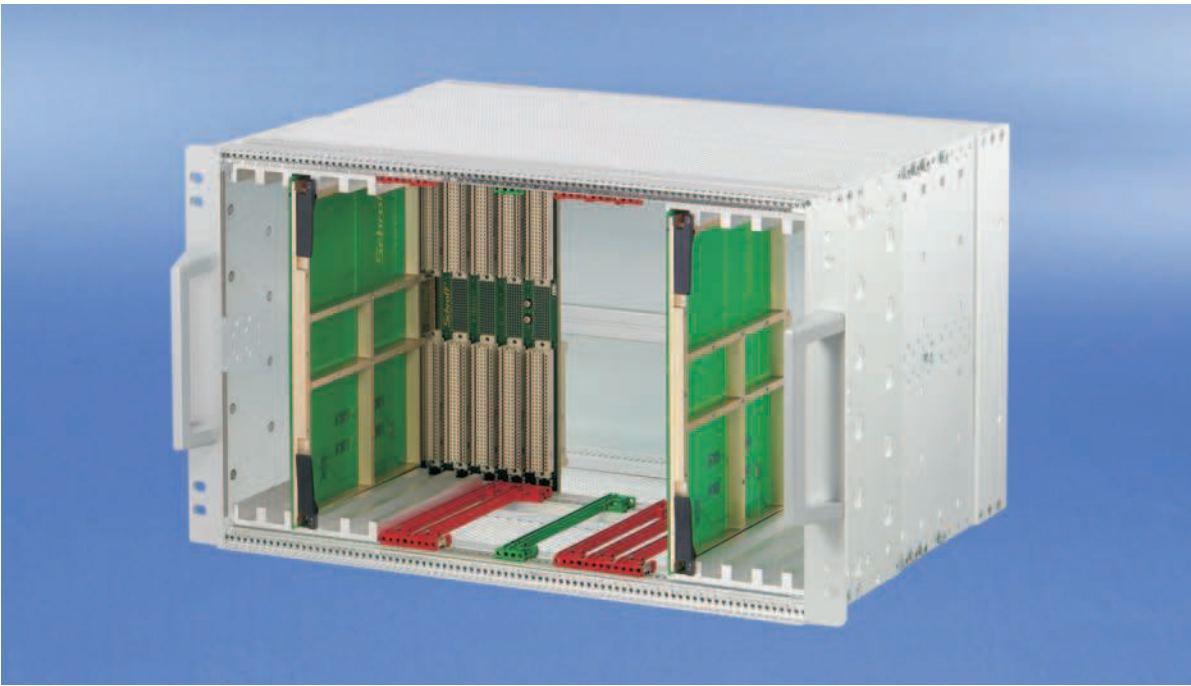


- Overview 0
- Cabinets 1
- Wall mounted cases 2
- Accessories for cabinets and wall mounted cases 3
- Climate control 4
- Desk-top cases 5
- Subracks/ 19" chassis ... 6**
- Front panels, plug-in units .. 7
- Systems 8
- Power supply units 9
- Backplanes .. 10
- Connectors, front panel component system 11
- Appendix 12

Subracks - *europac PRO* rugged

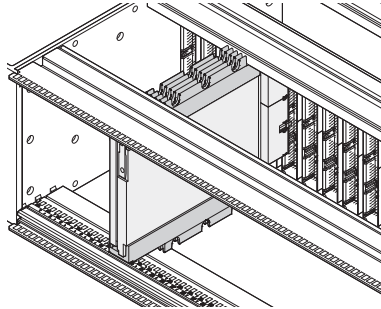


06112020



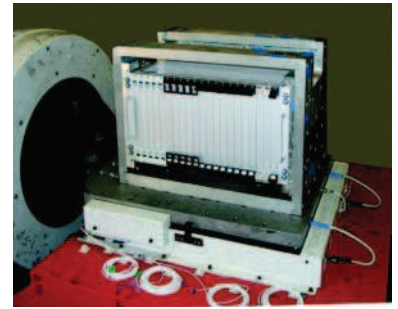
06112004

"rugged" horizontal rail with 3 hole fixing for increased stability (+60 % compared to 2 hole fixing of "heavy" horizontal rail)



06112052

Special adaptor rails allow conducted cooled assemblies to be fitted



Y-axis_001a1

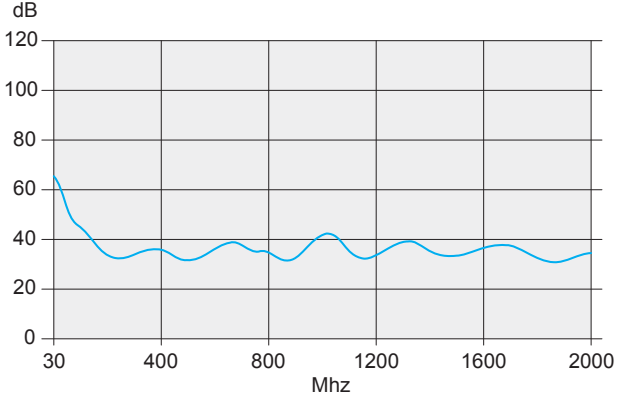
Shock and vibration resistant in all three axial directions

Standards/Approvals

- Internal and external dimensions in accordance with:
IEC 60297-3-100, -101, -102, -103, -104, -105, IEEE 1101.1, IEEE 1101.10/11
- Type of protection IP 20, in accordance with IEC 60529
- EMC testing to IEC 61587-3
- Shock and vibration test report;
MIL 167, IEC 61587 DL 3, MIL 810 G, MIL 901

Note

- Other finishes e.g. yellow chromated on request
- Subrack with telescopic slides can be adapted for cabinet mounting on request



EMC curve

06108081

Downloads and further important information can be found on the Internet under www.schroff.biz

Subracks - europac PRO rugged

Overview 6.92

19" subracks

- Shock and vibration resistant up to 25 g
- Kits or individually configured subracks
- A product and accessory platform for the most different customers' requirements and applications
- Suitable for CompactPCI and VMEbus insertion and extractor handles
- EMC shielding can easily be retrofitted
- 3D PDF or CAD 3D data available for download

Introduction . . . 6.4

Kits 6.94

Individual configuration . . 6.97

ServicePLUS . . . 6.95
Application examples 6.69

europacPRO . . . 6.6

Subracks for mobile railway applications . . . 6.70

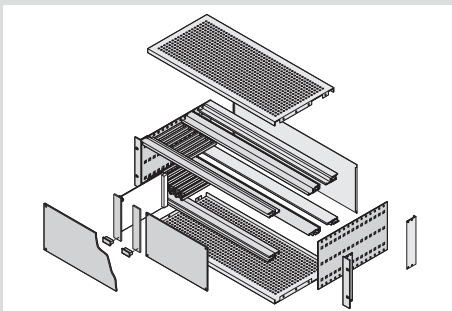
europacPRO for industrial applications . . . 6.86



06112017

Kits

- All required parts are available under one part number, even partly assembled
- Most popular versions and dimensions available from stock
- For installed loads over 15 kg up to 60 kg
- Supplied as a space-saving flat pack



06105058

ServicePLUS individual configuration

- Single parts may individually be configured, respectively assembled on request (from quantity 1)
- Wide range of variants in height, width and depth
- Guide rails for different applications
- EMC shielding material to improve EMC performance
- Other accessories and assembly kits

ServicePLUS from page 6.95

- e.g. modification (cut-outs)
- e.g. downloads (CAD drawings, user manuals, test reports)
- e.g. custom solutions (special depths, electromagnetically shielded applications)

www.schroff.biz/ServicePLUS



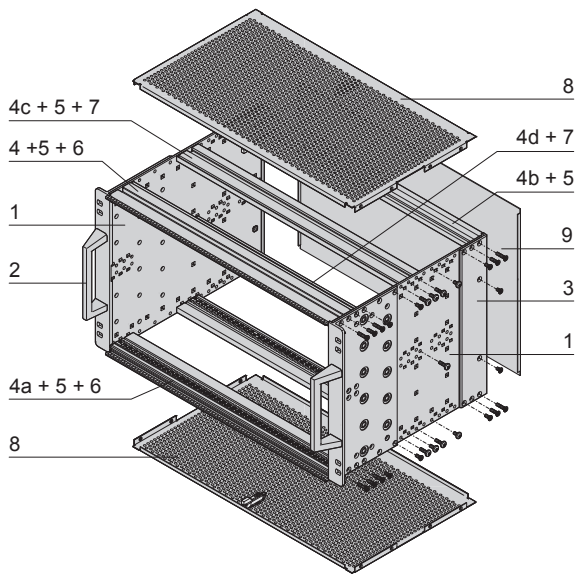
30407004

Subracks - europac PRO rugged



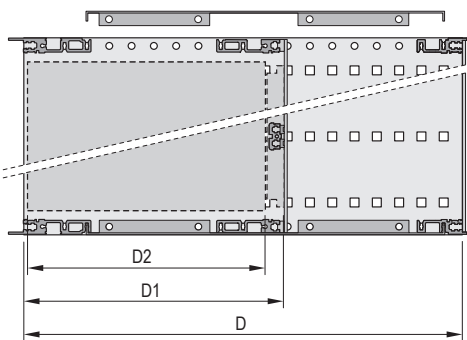
Illustration shows 3 U subrack

06112017



6 U

06112055



D = overall depth, D1 = insertion depth,
D2 = board depth = D1 - 15 mm

06112054



04400001

Rear horizontal rail for backplane mounting with insulation strip

Kit, rugged, shielded, for backplane mounting

- Subrack with robust side panel and horizontal rail, type R "rugged"
- Rear horizontal rail for backplane mounting with insulation strip
- Shielding typically 40 dB at 1 GHz, 30 dB at 2 GHz (as per VG 95373, part 15 and IEC 61587, part 3), on condition that the front is closed with sealed front panels
- Shock and vibration resistant to 25 g

NEW

Delivery comprises (Kit)

| Item | Qty | | Description |
|------|-----|-----|---|
| | 3 U | 6 U | |
| 1 | 2 | 2 | Side panel type R, Al, 3 mm, clear passivated, with 19" support bracket 3.5 mm (tox-cold welded); for EMC gasketing (textile) |
| 2 | 2 | 2 | Front handle incl. fixing material kit |
| 3 | 2 | 2 | Rear corner profile for EMC gasketing (textile) |
| 4 | 1 | - | Front horizontal rail (R-KD) |
| 4a | 1 | 2 | Front horizontal rail (R-LD) |
| 4b | 2 | 2 | Rear horizontal rail (H-KD) |
| 4c | 2 | 2 | Rear horizontal rail, centre (R-ST) |
| 4d | - | 1 | Rear horizontal rail, centre (ST) |
| 5 | 6 | 8 | Threaded insert (pre-fitted) |
| 6 | 2 | 2 | Perforated strip (pre-fitted) |
| 7 | 2 | 4 | Insulation strip (pre-fitted) |
| 8 | 2 | 2 | EMC cover plate, rugged, with top cover locking |
| 9 | 1 | 1 | EMC rear panel |
| 10 | 1 | 1 | EMC gasketing material, fixing material kit, user manual |

Order Information

| Height | Width | Depth D | Depth D1 | Part no. |
|--------|-------|---------|----------|------------------|
| U | HP | mm | mm | |
| 3 | 84 | 295 | 175 | 24567-149 |
| 6 | 84 | 295 | 175 | 24567-449 |

Accessories

| | |
|--|------------------|
| Guide rails, accessories, 160 mm deep | |
| PBT, UL 94 V-0, red, groove width 2 mm, PU 10 pieces | 24560-351 |
| Torx panhead screw 2.5 × 9.3, zinc-plated, PU 100 pieces; torque max. 0.2 Nm | 24560-141 |
| ESD clip for guide rails PU 50 pieces | 24560-255 |
| Guide rail accessories for heavy PCBs, extra strong | |
| Al extrusion, groove width 2 mm, 160 mm deep, 1 piece (SPQ 10) | 34562-881 |
| Torx pan head screw 2.5 × 7.3, zinc flake coating, black, 100 pieces; torque max. 0.2 Nm | 24560-157 |
| Adaptor to accommodate conduction cooled assemblies (CCA) for VPX applications, 160 mm deep, PU 1 pair; includes fixing material kit | |
| Adaptor to accommodate conduction cooled assemblies (CCA) for CompactPCI applications, 160 mm deep, PU 1 pair; includes fixing material kit | 24566-005 |

Note

- Test reports online
- For further accessories see from page 6.17

Subracks - *europac* **PRO** rugged **ServicePLUS**



configuration

Components can be varied and combined freely

Simple. Fast. To the ideal product.

- Configuration tables from page 6.96
- Online configuration: www.schroff.co.uk/configuration



assembly

Fitting of all mechanical, electrical and electronic components by our specialists

Assembled by professionals. Double benefit!

- Professional and reliable from quantity 1
- Ready for despatch within 5 working days



modification

Custom drillings, cut-outs and special colours for off-the-shelf products

Small changes. Large Impact.

- Custom modifications from quantity 1
- Ready for despatch within 10 working days



solution

Integration and custom developments

Simple. Fast. From one source.

- Special sizes (depth and width)
- Individual heat dissipation concepts
- Ready for dispatch within 10 working days



express

Delivery time to customer's request

When fast has to be faster.

- Express logistics



academy

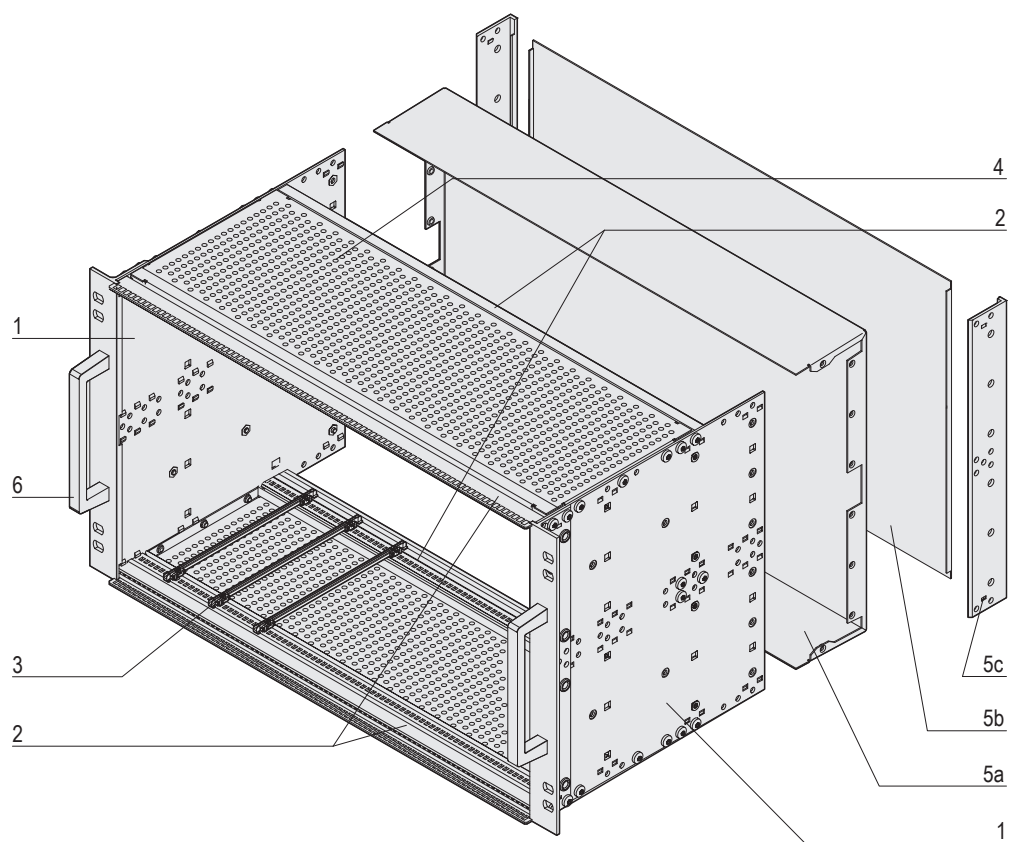
Knowledge transfer and partnership

Knowledge. Sharing. Partnerships.

- Seminars, CAD drawings, test reports, user reports

Subracks - *europac* **PRO** rugged ServicePLUS

Overview of individual components for shielded or unshielded subracks



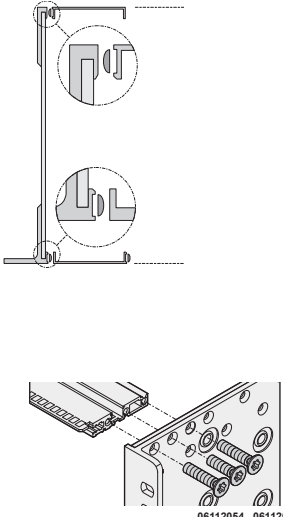
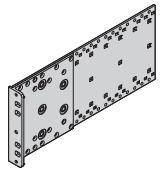
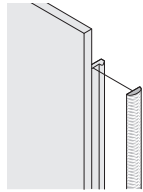
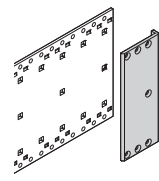
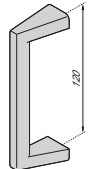
06108086

| Item | Description | Description | page |
|--------|---|---|-------|
| Item 1 | Side panels | Establish the height and depth of the subrack; Al, 3 mm, with universal hole positions for mounting of accessories | 6.97 |
| Item 2 | Horizontal rails | Establish the width of the subrack; Al extrusion, with defined hole positions for guide rails, grooves for threaded inserts, M4 thread at front, functional rail shapes, basically differing with regard to their mechanical loading capacity: rugged loading up to 15 kg | 6.98 |
| Item 3 | Guide rails | Guide rails act as interface between subracks and boards, for different board formats, are available in plastic or metal, optionally codable and optionally can be fitted with ESD clip to allow electrostatic discharge | 6.105 |
| Item 4 | Cover plates | Provide mechanical protection and/or EMC shielding and are perforated | 6.108 |
| Item 5 | Rear/front | Rear hood (5a) or front panel (5b) with corner profile (5c) as support for EMC shielding gaskets used in conjunction with shielded front panels; Note: rear hood and corner profile cannot be fitted simultaneously | 6.47 |
| Item 6 | Handles | Handles can be mounted on the 19" brackets | 6.97 |
| – | EMC shielding (without illustration) | Extensive component range for specific shielding of subrack according to your application | 6.110 |
| – | Internal mounting (without illustration) | Universal assemblies, e.g. for horizontal and vertical mounting and for mounting plates | 6.109 |
| | | | 6.58 |

Subracks - europac PRO rugged ServicePLUS

Side panel type R, EMC sealing, corner profile, front handle

Order Information

|  | |  06112059 |  04602054 |  06112058 |  06112057 |
|---|-------------|--|--|---|---|
| Height U | Depth mm | Side panel, Al 3 mm, tox-cold welded with 19" Al bracket, 3.5 mm with handle hole, clear passivated, front anodised; please order front handles separately | Textile gasket, core: foam, sleeve: textile cladding with CuNi coating, UL 94 V-0, temperature range -40 ... 70 °C | Al extrusion, 3 mm, finish clear passivated; with lateral grooves for EMC stainless steel gasket; rear hood cannot be used simultaneously | Die-cast Al profile, powder-coated, RAL 9006; load-carrying capacity 30 kg, fixing material kit |
| | | PU 1 pair | PU 10 pieces | PU 1 pair | PU 1 kit |
| 3 | 175 | 24568-145 | 21101-853 | 24566-199 | 24566-010 |
| 3 | 235 | 24568-147 | | | |
| 3 | 275 | 24568-143 | | | |
| 3 | 277.75 | 24568-144 | | | |
| 3 | 295 | 24568-149 | | | |
| 3 | 355 | 24568-151 | 21101-855 | 24566-499 | 24566-010 |
| 6 | 175 | 24568-445 | | | |
| 6 | 235 | 24568-447 | | | |
| 6 | 275 | 24568-443 | | | |
| 6 | 277.75 | 24568-444 | | | |
| 6 | 295 | 24568-449 | | | |
| 6 | 355 | 24568-451 | | | |

Fixing material kits see page 6.103

Side panel, type R

- For high mechanical demands up to 25 g (vibration resistance, shock and vibration requirements to e.g. IEC 61587-DL 3)
- 19" bracket is fixed firmly to side panel (tox-cold welded)
- Height 3 U and 6 U
- Depths 175, 235, 275, 277.75, 295 and 355 mm
- EMC shielding concept for front/rear with EMC textile gasket
- Other dimensions on request

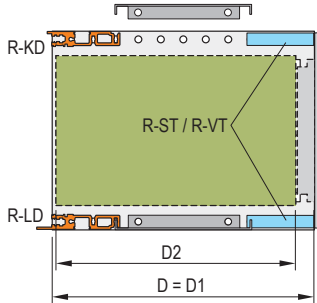


For further information www.schroff.biz/oneclick
oneClick search code = Part no.

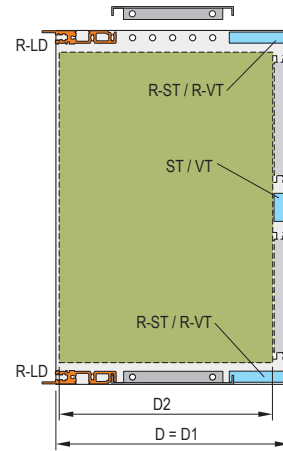
Subracks - *europac* PRO rugged ServicePLUS

Mounting position of horizontal rail/central rails

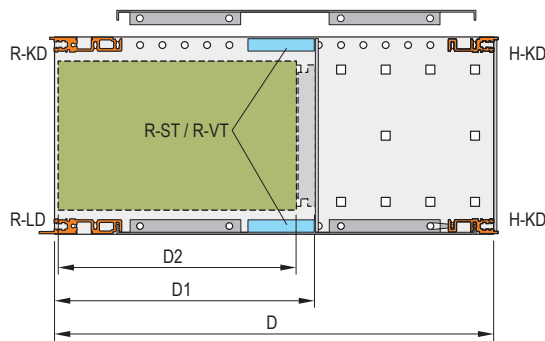
3 U (board depth 160, 220, 280 mm)



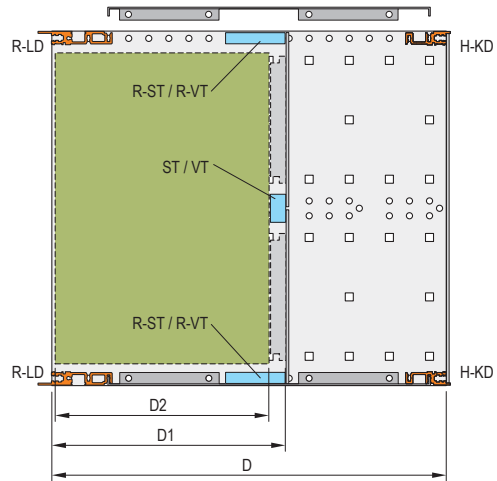
6 U (board depth 160, 220, 280 mm)



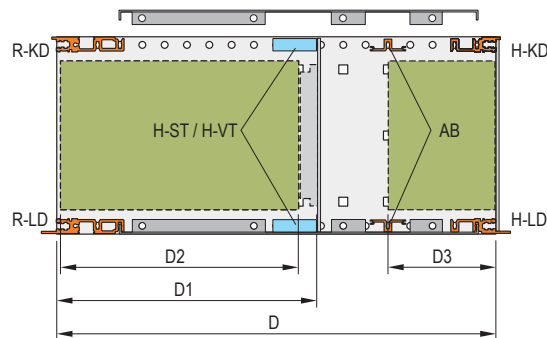
3 U (board depth 160, 220, 280 mm)



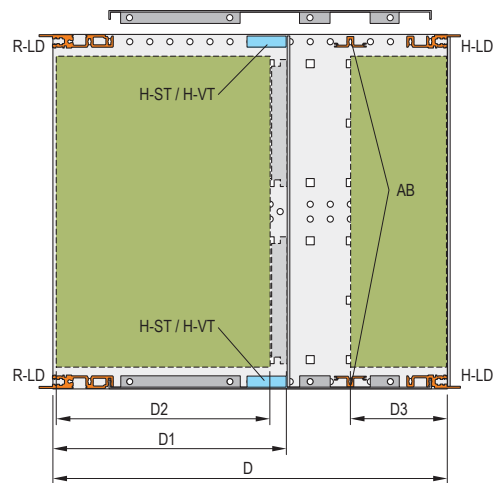
6 U (board depth 160, 220, 280 mm)



3 U (for CompactPCI/VME64x applications)



6 U (for CompactPCI/VME64x applications)



Horizontal rails

R-ST



06112070

R-VT



06112071

H-ST



06112072

H-VT



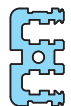
06112073

ST



06112074

VT

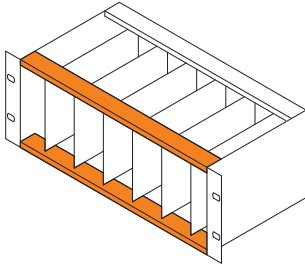
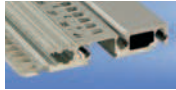
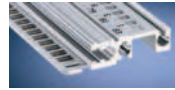
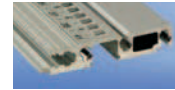



06112075

Subracks - *europac* **PRO** rugged Service**PLUS**

Front horizontal rails

Order Information

| | | | | | |
|---|------------------|--|---|--|---|
|  <p>bza44980</p> <p>With HP markings from 28 HP, Al extrusion, anodised finish, conductive contact surface</p> | | <p>With long lip for insertion/ extraction of CompactPCI and VME64x boards</p> <p>"rugged" Type R-LD long lip</p>  <p>06112004</p> <p>Al extrusion, anodised finish, conductive contact surface, with HP markings</p> | <p>With long lip for insertion/ extraction of CompactPCI and VME64x boards</p> <p>"heavy" Type H-LD long lip</p>  <p>06197008</p> <p>Al extrusion, anodised finish, conductive contact surface, with HP markings</p> | <p>With short lip</p> <p>"rugged" Type R-KD short lip</p>  <p>06112013</p> <p>Al extrusion, anodised finish, conductive contact surface, with HP markings</p> | <p>With short lip</p> <p>"heavy" Type H-KD short lip</p>  <p>06197008</p> <p>Al extrusion, anodised finish, conductive contact surface, with HP markings</p> |
| | | <p>1 piece (SPQ 10)¹⁾</p> | <p>1 piece (SPQ 10)¹⁾</p> | <p>1 piece (SPQ 10)¹⁾</p> | <p>1 piece (SPQ 10)¹⁾</p> |
| Usable length HP | Length mm | | | | |
| 20 | 106.68 | 34566-320 | 34560-320 | 34566-220 | 34560-220 |
| 28 | 147.32 | 34566-328 | 34560-328 | 34566-228 | 34560-228 |
| 40 | 208.28 | 34566-340 | 34560-340 | 34566-240 | 34560-240 |
| 42 | 218.44 | 34566-342 | 34560-342 | 34566-242 | 34560-242 |
| 63 | 325.12 | 34566-363 | 34560-363 | 34566-263 | 34560-263 |
| 84 | 431.80 | 34566-384 | 34560-384 | 34566-284 | 34560-284 |
| – | 1000 | 34566-301 | 34560-301 | 34566-201 | 34560-201 |
| Threaded inserts see page | | 6.104 | 6.104 | 6.104 | 6.104 |
| Fixing material kits see page | | 6.103 | 6.103 | 6.103 | 6.103 |

1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple
 "heavy" load > 7.5 kg; "rugged" load > 15 kg;

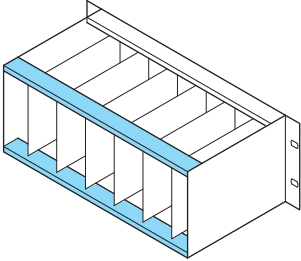








Note

- 1000 mm version without M4 thread to front, without printing and without notch for 19"-bracket
- EMC gasket see page 6.54
- For further horizontal rails see page 6.27

Subracks - europac *PRO* rugged ServicePLUS

Rear horizontal rails

Order Information

| | | | | | | |
|--|--|---|---|---|--|---|
|  <p>06105074</p> <p>With HP markings from 28 HP, Al extrusion, anodised finish, conductive contact surface</p> | <p>For indirect backplane fixing with insulation strip</p>  <p>06197011</p> | | <p>For direct backplane fixing</p>  <p>06197011</p> | | <p>For direct fixing of connectors in accordance with EN 60603-2 (DIN 41612)</p>  <p>06197011</p> | |
| | <p>"rugged" Type R-ST Standard</p>  <p>06112005</p> <p>Al extrusion, anodised finish, conductive contact surface, with HP markings</p> | <p>"heavy" Type H-ST standard</p>  <p>06197011</p> <p>Al extrusion, anodised finish, conductive contact surface, with HP markings</p> | <p>"rugged" Type R-VT recessed installation</p>  <p>06112006</p> <p>Al extrusion, anodised finish, conductive contact surface, with HP markings</p> | <p>"heavy" Type H-VT recessed installation</p>  <p>06197013</p> <p>Al extrusion, anodised finish, conductive contact surface, with HP markings</p> | <p>"heavy" Type H-MZ with Z-rail</p>  <p>06197015</p> <p>Al extrusion, anodised finish, conductive contact surface, with HP markings</p> | |
| <p>Usable length HP</p> | <p>Length mm</p> | <p>1 piece (SPQ 10)¹⁾</p> | <p>1 piece (SPQ 10)¹⁾</p> | <p>1 piece (SPQ 10)¹⁾</p> | <p>1 piece (SPQ 10)¹⁾</p> | <p>1 piece (SPQ 10)¹⁾</p> |
| 20 | 106.68 | 34566-520 | 34560-520 | 34566-720 | 34560-720 | 34560-920 |
| 28 | 147.32 | 34566-528 | 34560-528 | 34566-728 | 34560-728 | 34560-928 |
| 40 | 208.28 | 34566-540 | 34560-540 | 34566-740 | 34560-740 | 34560-940 |
| 42 | 218.44 | 34566-542 | 34560-542 | 34566-742 | 34560-742 | 34560-942 |
| 63 | 325.12 | 34566-563 | 34560-563 | 34566-763 | 34560-763 | 34560-963 |
| 84 | 431.80 | 34566-584 | 34560-584 | 34566-784 | 34560-784 | 34560-984 |
| – | 1000 | 34566-501 | 34560-501 | 34566-701 | 34560-701 | – |
| Insulation strips see page | | 6.104 | 6.104 | – | – | – |
| Threaded inserts see page | | 6.104 | 6.104 | 6.104 | 6.104 | 6.104 |
| Fixing material kits see page | | 6.103 | 6.103 | 6.103 | 6.103 | 6.103 |

1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple
 "heavy" load > 7.5 kg; "rugged" load > 15 kg;

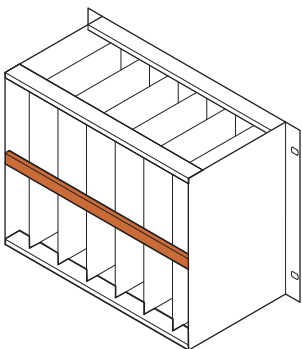
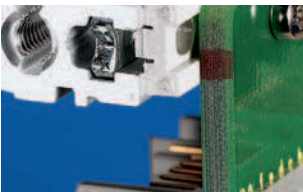





Note

- 1000 mm version without M4 thread to front, without printing and without notch for 19"-bracket
- EMC gasket see page 6.54
- For further horizontal rails see page 6.27

Subracks - *europac* **PRO** rugged Service**PLUS**

Rear horizontal rails, centre, for 6 U

Order Information

|  <p>06108090</p> | <p>For indirect backplane fixing with insulation strip</p>  <p>06197016</p> <p>Type ST</p>  <p>06197016</p> <p>Al extrusion, finish anodised, conductive contact surface; without markings</p> <p>1 piece (SPQ 10)¹⁾</p> | <p>For direct backplane fixing</p>  <p>06197017</p> <p>Type VT</p>  <p>06197017</p> <p>Al extrusion, finish anodised, conductive contact surface; without markings</p> <p>1 piece (SPQ 10)¹⁾</p> | <p>For direct fixing of connectors in accordance with EN 60603-2 (DIN 41612)</p>  <p>06197018</p> <p>Type MZ</p>  <p>06197018</p> <p>Al extrusion, finish anodised, conductive contact surface; without markings</p> <p>1 piece (SPQ 10)¹⁾</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|--|------------------|--|--|----|--------|------------------|------------------|------------------|----|--------|------------------|------------------|------------------|----|--------|------------------|------------------|------------------|----|--------|------------------|------------------|------------------|----|--------|------------------|------------------|------------------|----|--------|------------------|------------------|------------------|---|------|------------------|------------------|------------------|----------------------------|--|-------|---|---|---------------------------|--|-------|-------|-------|-------------------------------|--|-------|-------|-------|--|
| | <table border="1"> <thead> <tr> <th>Usable length HP</th> <th>Length mm</th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>20</td> <td>106.68</td> <td>34561-020</td> <td>34561-120</td> <td>34561-220</td> </tr> <tr> <td>28</td> <td>147.32</td> <td>34561-028</td> <td>34561-128</td> <td>34561-228</td> </tr> <tr> <td>40</td> <td>208.28</td> <td>34561-040</td> <td>34561-140</td> <td>34561-240</td> </tr> <tr> <td>42</td> <td>218.44</td> <td>34561-042</td> <td>34561-142</td> <td>34561-242</td> </tr> <tr> <td>63</td> <td>325.12</td> <td>34561-063</td> <td>34561-163</td> <td>34561-263</td> </tr> <tr> <td>84</td> <td>431.80</td> <td>34561-084</td> <td>34561-184</td> <td>34561-284</td> </tr> <tr> <td>–</td> <td>1000</td> <td>34561-001</td> <td>34561-101</td> <td>34561-201</td> </tr> <tr> <td>Insulation strips see page</td> <td></td> <td>6.104</td> <td>–</td> <td>–</td> </tr> <tr> <td>Threaded inserts see page</td> <td></td> <td>6.104</td> <td>6.104</td> <td>6.104</td> </tr> <tr> <td>Fixing material kits see page</td> <td></td> <td>6.103</td> <td>6.103</td> <td>6.103</td> </tr> </tbody> </table> | Usable length HP | Length mm | | | | 20 | 106.68 | 34561-020 | 34561-120 | 34561-220 | 28 | 147.32 | 34561-028 | 34561-128 | 34561-228 | 40 | 208.28 | 34561-040 | 34561-140 | 34561-240 | 42 | 218.44 | 34561-042 | 34561-142 | 34561-242 | 63 | 325.12 | 34561-063 | 34561-163 | 34561-263 | 84 | 431.80 | 34561-084 | 34561-184 | 34561-284 | – | 1000 | 34561-001 | 34561-101 | 34561-201 | Insulation strips see page | | 6.104 | – | – | Threaded inserts see page | | 6.104 | 6.104 | 6.104 | Fixing material kits see page | | 6.103 | 6.103 | 6.103 | |
| Usable length HP | Length mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 106.68 | 34561-020 | 34561-120 | 34561-220 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | 147.32 | 34561-028 | 34561-128 | 34561-228 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 40 | 208.28 | 34561-040 | 34561-140 | 34561-240 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 42 | 218.44 | 34561-042 | 34561-142 | 34561-242 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 63 | 325.12 | 34561-063 | 34561-163 | 34561-263 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 84 | 431.80 | 34561-084 | 34561-184 | 34561-284 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| – | 1000 | 34561-001 | 34561-101 | 34561-201 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Insulation strips see page | | 6.104 | – | – | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Threaded inserts see page | | 6.104 | 6.104 | 6.104 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fixing material kits see page | | 6.103 | 6.103 | 6.103 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple
 "heavy" load > 7.5 kg; "rugged" load > 15 kg;

Note

- All horizontal rails without printed markings
- 1000 mm version without M4 thread to front

Subracks - *europac* **PRO** rugged Service**PLUS**

Horizontal rails (type AB) for rear I/O applications

Order Information

06108069

For CompactPCI in rear I/O area

06108009

Type AB

06197009

Al extrusion, finish anodised, conductive contact surface;
horizontal rail type AB (AB = support) is required to fix
the guide rails for the 80 mm rear I/O boards;
without markings

| Usable length HP | Length mm | 1 piece (SPQ 10) ¹⁾ |
|-------------------------------|--------------|--------------------------------|
| 20 | 106.68 | 34561-520 |
| 28 | 147.32 | 34561-528 |
| 40 | 208.28 | 34561-540 |
| 42 | 218.44 | 34561-542 |
| 63 | 325.12 | 34561-563 |
| 84 | 431.80 | 34561-584 |
| – | 1000 | 34561-501 |
| Fixing material kits see page | | 6.103 |

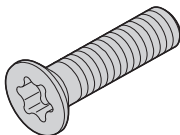
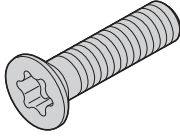
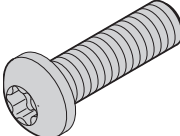
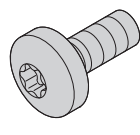
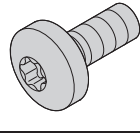
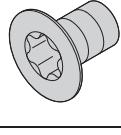
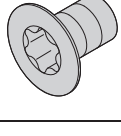
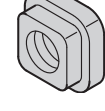
¹⁾ SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple
"heavy" load > 7.5 kg; "rugged" load > 15 kg;

Note

- All horizontal rails without printed markings
- 1000 mm version without M4 thread in end

Subracks - europac *PRO* rugged ServicePLUS

Screws overview

| | Description | Material | Dimension | Qty/PU | Part no. |
|---|--|-------------------|-----------|--------|------------------|
|  06712051 | Countersunk screw, with thread locking compound Application: Rugged side panel to horizontal rail; for area of tox-cold welded brackets and corner profiles <u>except</u> when guide rail is fitted to slot 1 | Stainless steel | M4 x 18 | 100 | 24566-100 |
|  06712051 | Countersunk screw, with thread locking compound Application: Rugged side panel to horizontal rail; for area of tox-cold welded brackets and corner profiles <u>if</u> guide rail is fitted to slot 1 | Stainless steel | M4 x 14 | 100 | 24566-101 |
|  aza45940 | Panhead screw, with thread locking compound Application: Rugged side panel to horizontal rail; <u>not</u> for area of tox-cold welded brackets and corner profiles <u>except</u> when guide rail is fitted to slot 1 | Stainless steel | M4 x 14 | 100 | 24566-102 |
|  06712053 | Panhead screw, with thread locking compound Application: Rugged side panel to horizontal rail; <u>not</u> for area of tox-cold welded brackets and corner profiles <u>if</u> guide rail is fitted to slot 1 | Stainless steel | M4 x 10 | 100 | 24566-103 |
|  06712053 | Panhead screw, with thread locking compound Application: Rugged side panel to cover plate, <u>not</u> for area of tox-cold welded brackets and corner profiles | Stainless steel | M4 x 8 | 100 | 24566-104 |
|  06708053 | Torx countersunk screw, with thread locking compound Application: : Rugged side panel to cover plate, for area of tox-cold welded brackets and corner profiles | Stainless steel | M4 x 10 | 100 | 24566-106 |
|  06708053 | Torx countersunk screw, with thread locking compound Application: Rugged side panel to corner profile; in EMC-shielded subracks and to increase robustness | Stainless steel | M4 x 7 | 100 | 24566-105 |
|  AZA45921 | Square nut Application: Rugged side panel to corner profile; in EMC-shielded subracks and to increase robustness | Zinc-plated steel | M4 | 100 | 24560-140 |

Note

- Stainless steel screws; with organic surface layer (silver)



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

Subracks - europac *PRO* rugged ServicePLUS

Threaded inserts, perforated strips, insulation strips

Order Information

| Usable length HP | Threaded insert | | | Perforated strip | | Insulation strip | |
|---------------------|-----------------|-----------------------------------|-----------------------------------|------------------|-----------------------------------|------------------|------------------|
| | Length mm | Item 1 | | Length mm | Item 1 | | |
| | | 1 piece (SPQ 10) ¹⁾ | 1 piece (SPQ 10) ¹⁾ | | 1 piece (SPQ 10) ¹⁾ | PU 10 pieces | |
| 20 | 106.18 | 34561-320 | – | 106.48 | 30845-189 | 101.50 | 24560-820 |
| 28 | 146.82 | 34561-328 | – | 147.12 | 30845-197 | 144.20 | 24560-828 |
| 40 | 207.78 | 34561-340 | – | 208.08 | 30845-209 | 205.12 | 24560-840 |
| 42 | 217.94 | 34561-342 | – | 218.24 | 30845-211 | 210.40 | 24560-842 |
| 63 | 324.62 | 34561-363 | – | 324.92 | 30845-232 | 316.88 | 24560-863 |
| 84 | 431.30 | 34561-384 | 34561-484 | 431.60 | 30845-253 | 428.64 | 24560-884 |
| 196 | 1000.26 | 34565-196 | – | 1000.26 | 34565-396 | – | – |

Accessories

| | | | | | | |
|---------------------------------------|------------------|------------------|---|------------------|---|---|
| Grub screw M2.5 x 8, PU 100 pieces | 21100-276 | – | – | – | – | – |
| Grub screw M2.5 x 9, PU 100 pieces | – | – | – | 21101-359 | – | – |
| Grub screw M3 x 8, PU 100 pieces | – | 21100-646 | – | – | – | – |

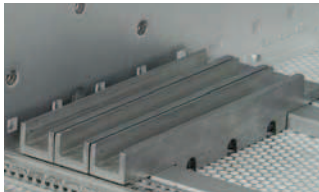
1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple

Part no. includes one packing unit (PU); delivery is exclusively made in PU

Subracks - *europac* **PRO** rugged Service**PLUS**

Adaptor to accommodate conduction cooled assemblies (CCA)

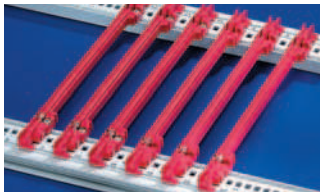
Order Information

| | Adaptor to accommodate conduction cooled assemblies (CCA) in subracks | |
|---------------------|---|-------------------|
| |  | |
| | Al die-cast, silver, can be screw-fixed, 0.8" pitch; suitable for heavy and rugged horizontal rails, incl. fixing material kit | |
| Board length | VPX | CompactPCI |
| mm | PU 1 pair | PU 1 pair |
| 160 | 24566-005 | 24566-005 |

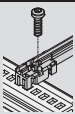
2) Part no. includes one packing unit (PU); delivery is exclusively made in PU

Guide rails for plug-in units and frame type plug-in units, one-piece, groove width 2 mm and 2.5 mm

Order Information

| Assembly Plastic guide rail - can be clipped into Al extruded horizontal rails - can be clipped into 1.5 mm thick plates | | | For plug-in units and frame type plug-in units "Standard" | |
|---|--------------|--------|---|--|
| Storage temperature from -40 °C ... 130 °C | | |  | |
| Board length | Groove width | Colour | up to 220 mm length, PBT, UL 94 V-0; from 280 mm length, multi-piece, end piece PBT, UL 94 V-0, central section Al extrusion PU 10 pieces²⁾ | PBT, UL 94 V-0 1 piece (SPQ 50)¹⁾ |
| mm | mm | mm | | |
| 70 | 2 | red | - | 34579-230 |
| 70 | 2 | grey | - | 34579-231 |
| 160 | 2 | red | 24560-351 | 64560-001 |
| 220 | 2 | red | 24560-353 | 64560-002 |
| 280 | 2 | red | 24560-379 | - |
| 340 | 2 | red | 24560-380 | - |
| 160 | 2.5 | red | - | 64560-096 |
| 220 | 2.5 | red | - | 64560-098 |

Accessories

| | | | |
|---|---|------------------|------------------|
| Retention screw, PU 100 pieces; Torque max. 0.2 Nm |  | 24560-141 | 24560-141 |
| ESD clip, PU 50 pieces | | 24560-255 | 24560-255 |

1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple

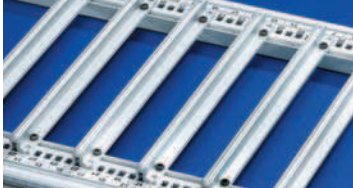


2) Part no. includes one packing unit (PU); delivery is exclusively made in PU

Description of accessories see from page 6.107

Subracks - europac *PRO* rugged ServicePLUS

Guide rails for heavy assemblies, CompactPCI, VME64x

Order Information

| Assembly | | | For heavy modules, Al extrusion, silver, robust version | For CompactPCI, VME64x with coding In accordance with IEEE 1101.10 and IEC 60297-3-103 | Offset 0.1" for power supply units in accordance with IEEE 1101.10 and IEC 60297-3-103 |
|--|-----------------------|--------------|--|---|---|
| Plastic guide rails - can be clipped into Al extruded horizontal rails - can be clipped into 1.5 mm thick plates | | |  <p>Al extrusion; is screwed to horizontal rail "heavy" or "rugged" with retention screws</p> |  <p>One-piece for groove width 2 mm, PBT, UL 94 V-0; multi-piece for groove width 2.5 mm, end piece PBT, UL 94 V-0, middle section Al extrusion</p> |  <p>PBT, UL 94 V-0, for installation of power supplies in CompactPCI systems or plug-in units with SMD placement</p> |
| Storage temperature from -40 °C ... 130 °C | | | | | |
| Board length mm | Groove width mm | Colour mm | 1 piece (SPQ 10) ¹⁾ | PU 10 pieces ²⁾ | PU 10 pieces ²⁾ |
| 70 | 2 | red | – | 24560-355 | – |
| 70 | 2 | grey | – | 24560-360 | – |
| 160 | 2 | red | – | 24560-356 | – |
| 160 | 2 | grey | 34562-881 | 24560-358 | – |
| 160 | 2 | green | – | – | 24560-359 |
| 220 | 2 | grey | 34562-882 | – | – |
| 220 | 2 | green | 34562-883 | – | – |
| 160 | 2.5 | red | 34562-884 | – | – |
| 220 | 2.5 | red | 34562-885 | 24561-330 | – |
| 220 | 2.5 | grey | 34564-881 | 24561-340 | – |
| 280 | 2.5 | red | 34564-882 | 24561-331 | – |
| 280 | 2.5 | grey | 34564-883 | 24561-341 | – |

Accessories

| | | | |
|---|------------------|------------------|------------------|
| ESD clips, PU 50 pieces | – | 24560-255 | – |
| ESD clips, for alignment pin, PU 50 pieces | – | 24560-256 | 24560-256 |
| Retention screw, PU 100 pcs.; torque max. 0.2 Nm | 24560-157 | 24560-141 | 24560-141 |
| Coding peg, PU 100 pieces | – | 20817-501 | 20817-501 |

¹⁾ SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple

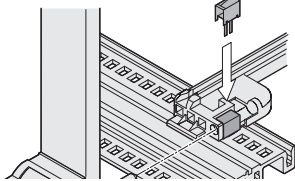
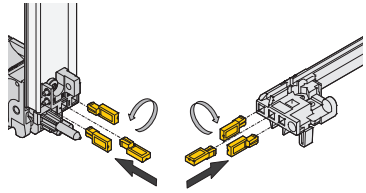
Part no. includes one packing unit (PU); delivery is exclusively made in PU

Description of accessories see from page 6.107

Subracks - *europac* **PRO** rugged Service**PLUS**

Guide rail accessories

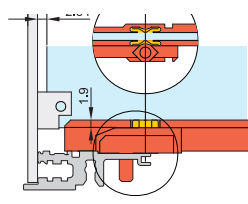
Order Information

| | | |
|--|--|---|
| | <p>ESD clips, CompactPCI/VME 64 alignment pin for guide rails</p>  <p>06103052</p> <p>Spring steel, tin-plated, ESD clip, for alignment pin in accordance with IEEE; can be plugged into the guide rails with coding and into the keying/coding block; provides conductive contact between the guide pin of the inserter/ extractor handle (IEL or IET handle) and the horizontal rail</p> <p>PU 50 pieces ²⁾</p> | <p>Coding for plug-in components Keying/coding for CompactPCI, VME64x handles to IEEE 1011.10 and IEC 60297-3-103</p>  <p>04612052</p> <p>Keying/coding peg, PBTP, UL 94 V-0, RAL 7035: The keying/coding pegs prevent plug-in units to be mounted in wrong slots. They are inserted in the chambers of the codable card guides as well as in the insertion/extraction handles IEL or IET (4 possible positions), resulting in 64 codings per card guide; when coding the upper and lower card guide, 4096 codings will result;</p> <p>PU 100 pieces ²⁾</p> |
| <p>Assembly At the top/ at the bottom</p> | <p>24560-256</p> | <p>20817-501</p> |

²⁾ Part no. includes one packing unit (PU); delivery is exclusively made in PU

Guide rail accessories

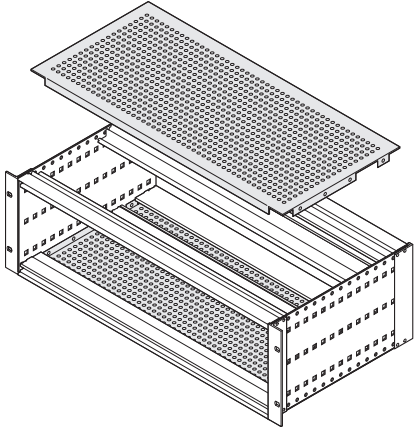
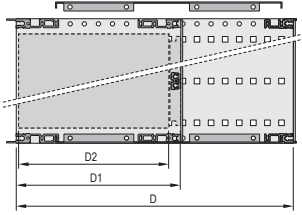
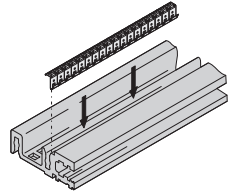
Order Information

| | |
|--|---|
| | <p>ESD clip for guide rails</p>  <p>04503050</p> <p>Spring steel, tin-plated, ensures conductive contact between board and horizontal rail, on both the solder side and the component side</p> <p>Colour silver</p> <p>PU 50 pieces</p> |
| <p>Assembly above/below</p> | <p>24560-255</p> |


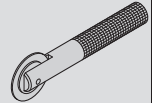
Subracks - europac *PRO* rugged ServicePLUS

Cover plates for bolting to rugged side panel

Order Information

|  <p style="text-align: right;">06197010</p> | <p style="text-align: center;">Cover plate for bolting to side panel</p>  <p style="text-align: right;">06112054</p> <p>Perforated Al plate, 1.2 mm, hole diameter 4.0 mm, passivated, perforation ratio 58 %, incl. retention screws;</p> <p>4 stainless steel EMC contact strips per subrack are required for shielding, please order separately</p> | <p style="text-align: center;">Stainless steel EMC gasket, between cover plate and horizontal rail</p>  <p style="text-align: right;">06106052</p> <p>Stainless steel EMC gasket, clips into the horizontal rail and forms the contact with the cover plate; suitable for all horizontal rails</p> | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|----------------------|----|-----|-------------------------|----|-----|-------------------------|----|-----|-------------------------|----|-----|--|----|--------|--|----|-----|--|----|-----|--|---|------------------|------------------|
| | PU 1 pair | PU 10 pieces | PU 100 pieces | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Width HP</th> <th>Depth D mm</th> <th>Application</th> </tr> </thead> <tbody> <tr> <td>84</td> <td>175</td> <td>160 mm board depth (D2)</td> </tr> <tr> <td>84</td> <td>235</td> <td>220 mm board depth (D2)</td> </tr> <tr> <td>84</td> <td>295</td> <td>280 mm board depth (D2)</td> </tr> <tr> <td>84</td> <td>275</td> <td>160 mm board depth (D2) CompactPCI, 80 mm rear I/O</td> </tr> <tr> <td>84</td> <td>277.75</td> <td>160 mm board depth (D2) CompactPCI, 80 mm rear I/O</td> </tr> <tr> <td>84</td> <td>295</td> <td>160 mm board depth (D2), approx. 120 mm clearance behind backplane</td> </tr> <tr> <td>84</td> <td>355</td> <td>220 mm board depth (D2), approx. 120 mm clearance behind backplane</td> </tr> </tbody> </table> | Width HP | Depth D mm | Application | 84 | 175 | 160 mm board depth (D2) | 84 | 235 | 220 mm board depth (D2) | 84 | 295 | 280 mm board depth (D2) | 84 | 275 | 160 mm board depth (D2) CompactPCI, 80 mm rear I/O | 84 | 277.75 | 160 mm board depth (D2) CompactPCI, 80 mm rear I/O | 84 | 295 | 160 mm board depth (D2), approx. 120 mm clearance behind backplane | 84 | 355 | 220 mm board depth (D2), approx. 120 mm clearance behind backplane | 24568-004 24568-008 24568-012 24568-032 24568-036 24568-016 24568-020 | 24560-245 | 24560-246 |
| Width HP | Depth D mm | Application | | | | | | | | | | | | | | | | | | | | | | | | | |
| 84 | 175 | 160 mm board depth (D2) | | | | | | | | | | | | | | | | | | | | | | | | | |
| 84 | 235 | 220 mm board depth (D2) | | | | | | | | | | | | | | | | | | | | | | | | | |
| 84 | 295 | 280 mm board depth (D2) | | | | | | | | | | | | | | | | | | | | | | | | | |
| 84 | 275 | 160 mm board depth (D2) CompactPCI, 80 mm rear I/O | | | | | | | | | | | | | | | | | | | | | | | | | |
| 84 | 277.75 | 160 mm board depth (D2) CompactPCI, 80 mm rear I/O | | | | | | | | | | | | | | | | | | | | | | | | | |
| 84 | 295 | 160 mm board depth (D2), approx. 120 mm clearance behind backplane | | | | | | | | | | | | | | | | | | | | | | | | | |
| 84 | 355 | 220 mm board depth (D2), approx. 120 mm clearance behind backplane | | | | | | | | | | | | | | | | | | | | | | | | | |

Accessories

| | | | |
|--|-----------|------------------|------------------|
| Cover plate latch, additional securing for rugged cover plate, PU 4 pieces  | 24566-007 | - | - |
| Assembly tool, to fit EMC gasket, stainless steel, for horizontal rails, 1 piece  | - | 24560-271 | 24560-271 |

Note

- Cover plates without perforation available on request
- Mounting position of horizontal rails, see page 6.98

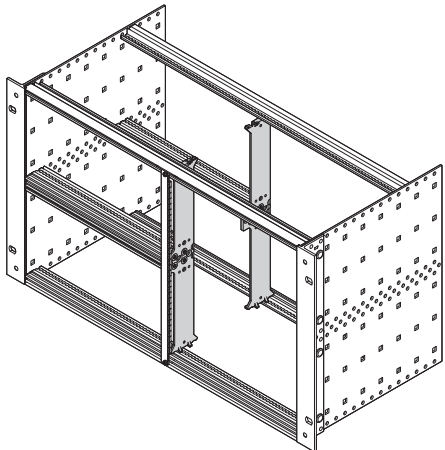
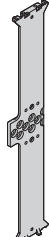
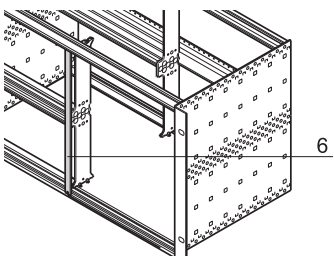


For further information www.schroff.biz/oneclick
oneClick search code = Part no.

Subracks - *europac* **PRO** rugged Service**PLUS**

Combined mounting (6 U and 2 x 3 U one above the other)

Order Information

| | | |
|---|--|---|
|  <p>06112076</p> <p>Height U 6</p> | <p>Rugged struts for combined mounting</p>  <p>06112077</p> <p>6 U, die-cast zinc; fixing material kit</p> <p>PU 2 pieces 24566-400</p> | <p>Front panel for textile EMC gasket, 6 U, 2 HP Item 6</p>  <p>bpa46550</p> <p>Al, 2.5 mm, U-profile with notch, 6 U, 2 HP</p> <p>1 piece (SPQ 5)¹⁾ 30849-140</p> |
|---|--|---|

Accessories

| | | |
|--|---|------------------|
| Pozidrive/slotted collar screw M2.5 x 12.3, St, nickel-plated, PU 100 pieces | - | 21101-101 |
| Pozidrive/slotted collar screw M2.5, black, zinc-plated, PU 100 pieces | - | 21101-102 |
| Washer 2.7 x 5 x 1, PA 6, PU 100 pieces | - | 21101-121 |
| Textile gasket, core: foam, sleeve: textile cladding with CuNi coating, UL 94 V-0, PU 10 pieces | - | 21101-855 |

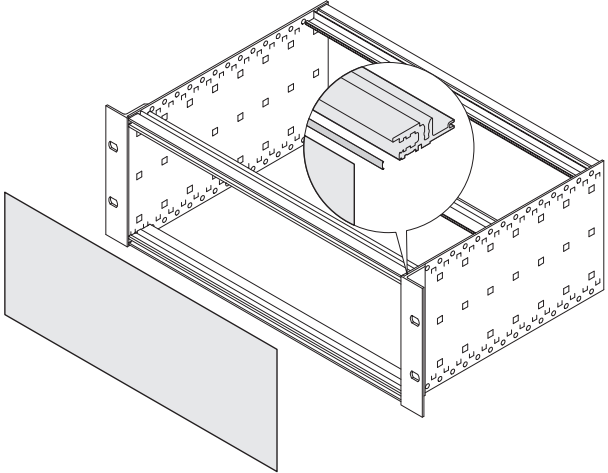
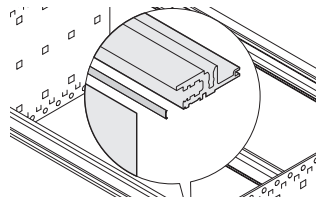
Note

- Rugged horizontal rails in various lengths, see page 6.99

Subracks - europac *PRO* rugged ServicePLUS

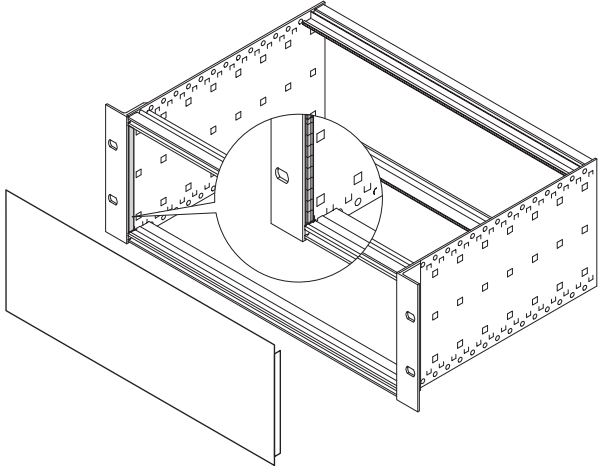
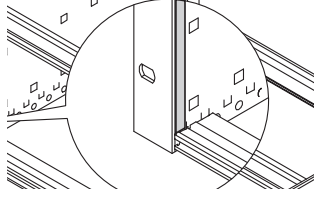
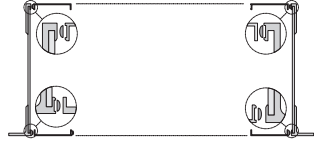
EMC gaskets between front/rear panel and horizontal rail

Order Information

| | | | |
|---|---------------------|---|----------------------|
|  <p style="text-align: right; font-size: small;">06102053</p> | | Stainless steel EMC gasket between front panel/rear panel and horizontal rail | |
| | |  <p style="text-align: right; font-size: small;">06102053</p> | |
| <p>stainless steel; for front and rear horizontal rails (type VT)</p> | | | |
| Width HP | Depth mm | PU 10 pieces | PU 100 pieces |
| 28 | 131.8 | 24560-229 | - |
| 42 | 202.9 | 24560-231 | - |
| 63 | 304.5 | 24560-233 | - |
| 84 | 416.6 | 24560-235 | 24560-236 |

EMC gaskets between front panel and 19" bracket/corner profile

Order Information

| | | | |
|---|---------------------|---|----------------------|
|  <p style="text-align: right; font-size: small;">06105077</p> | | Textile EMC gasket between front panel/rear panel and 19" bracket/corner profile | |
| | |  <p style="text-align: right; font-size: small;">06102056</p> | |
| | |  <p style="text-align: right; font-size: small;">06108054</p> | |
| <p>textile gasket, core: foam, sleeve: textile cladding with CuNi coating, UL 94 V-0C</p> | | | |
| Height U | Depth mm | PU 10 pieces | PU 100 pieces |
| 3 | 97.5 | 21101-853 | 21101-854 |
| 6 | 232.5 | 21101-855 | 21101-856 |

Subracks - europacPRO rugged ServicePLUS

EMC gasket between horizontal rail and cover plate

Order Information

| | | | |
|---|---------------------|--|-------------------------|
| | | <p>Stainless steel EMC gasket, between cover plate and horizontal rail</p> <p>stainless steel EMC gasket, clips into the horizontal rail and forms the contact with the cover plate; suitable for all horizontal rails</p> | |
| <p>Width HP</p> | <p>Depth mm</p> | <p>PU 10 pieces</p> | <p>PU 100 pieces</p> |
| 42 | 202.9 | 24560-241 | — |
| 84 | 416.6 | 24560-245 | 24560-246 |
| <p>Assembly tool, to fit EMC gasket, stainless steel, for horizontal rails, 1 piece</p> | | <p>24560-271</p> | <p>24560-271</p> |

EMC gasket between backplane and side panel

Order Information

| | | | |
|--|---------------------|--|--|
| | | <p>Stainless steel EMC gasket between backplane and side panel (depth-offset installation)</p> <p>2 x support profile, Al extrusion, 2 x stainless steel EMC gasket; for vertical EMC shielding between depth-offset shielded backplane and side panel: dimensions for 84 HP A = 425.8 mm, B < 429.9 mm, C = 429.8 mm, D = 431.8 mm</p> | |
| <p>Height U</p> | <p>Depth mm</p> | <p>PU 1 kit</p> | |
| 3 | 97.5 | 24561-199 | |
| 6 | 187.5 | 24561-499 | |
| <p>Torx countersunk screw M4 × 7, St, zinc-plated, PU 100 pieces</p> | | 24566-105 | |
| <p>Square nut M4, St, zinc-plated, PU 100 piece</p> | | 24560-140 | |

With appropriate design, the backplane can be used as shielded rear wall of the rack; in this case a rear horizontal rail (L-type VT or H-VT) must be used for deeper installation to ensure the horizontal contact.

Für den vertikalen Kontakt kann die Trägerleiste standardmäßig an der europacPRO-Seitenwand befestigt werden (Tiefenraster 30 mm)