

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

Desk-top cases

ratio**pac*****PRO***

The universal case with 19" compatible dimensions e.g. for CompactPCI and VME64x applications

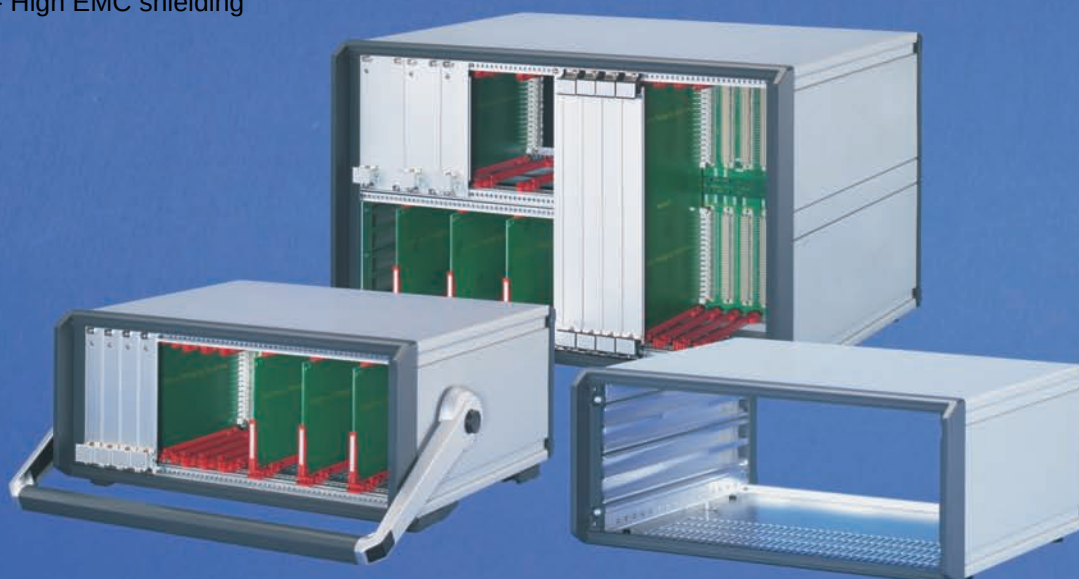
- Aluminium case
- Height 2 ... 7 U
- High EMC shielding



prop**ac*****PRO***

The robust case for 19" compatible or custom electronics assemblies

- Aluminium case with aluminium frame front
- Height 2 ... 6 U
- High EMC shielding



www.c-box-tech.com

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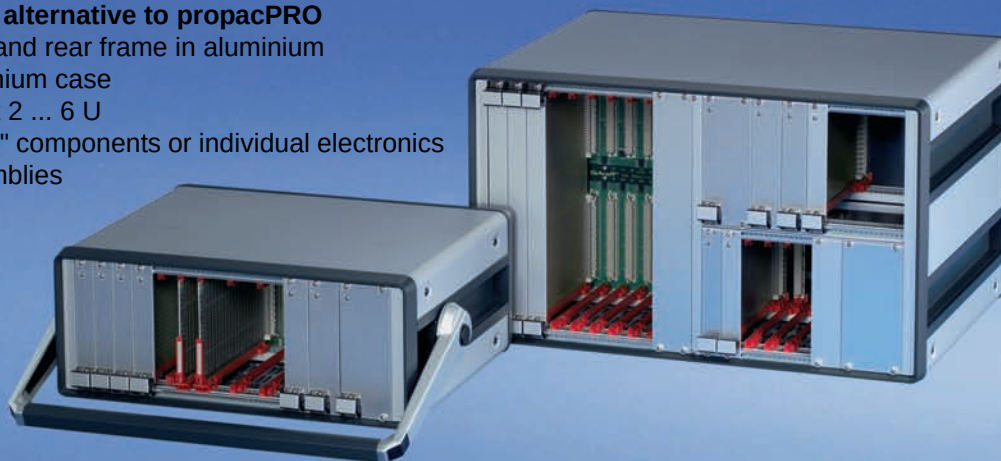
Desk-top cases

compacPRO

Desk-top or portable case

Design alternative to propacPRO

- Front and rear frame in aluminium
- Aluminium case
- Height 2 ... 6 U
- For 19" components or individual electronics assemblies



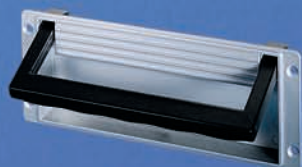
comptec

Case to house

19" subracks or 19" chassis

- Case with aluminium frame to front and rear
- High stability
- Height 3 ... 12 U
- Identical front and rear
- Internal mounting up to 40 kg
- Protection class IP 20

Accessories



Overview ... 5.0

Introduction . . 5.2

SERIES ... 5.4

C-BOX PRO . . 5.6

propacPRO . . 5.44

compacPRO . . 5.76

comptec 5.100

Accessories

Handles 5.108

Strap handles . . 5.111

Tip-up carrying handles 5.112

Folding handles . 5.113

Tray handles . . 5.114

Feet 5.115

SERIES ... 5.4

Desk-top cases – Introduction

Case types: Desk-top enclosure/19" case



Desk-top enclosure,
C-BOX PRO

01810002



19" case, comptec

02202004

Desk-top enclosures

Our desk-top cases are used to house PCBs (euroboards) or individual components

The choice is yours:

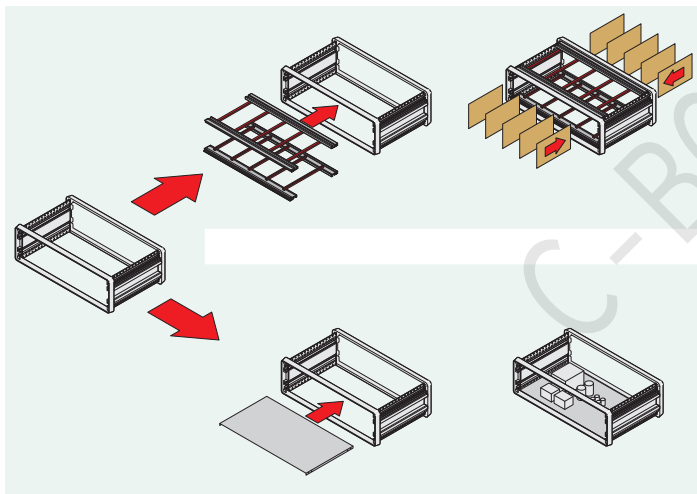
- C-BOX PRO, the universal case with 19" compatible dimensions and high EMC shielding, e.g. for CompactPCI and VME64x applications
- propacPRO, the robust case with high EMC shielding for 19"-compatible or custom electronics assemblies
- compacPRO, Desk-top or portable case for unshielded applications

19" cases

Our comptec cases are comparable with small cabinets and are used to house 19" components such as subracks, 19" fan trays or 19" front panels

All desk-top enclosures have a very low weight owing to the materials used and are also suitable for mobile use

Applications for desk-top enclosures



Example above: for euroboards, below: for individual installation

The most important user domains for desk-top enclosures are:

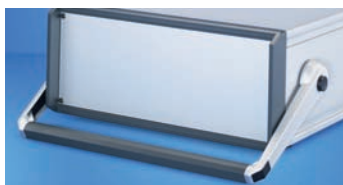
- Fitting with euroboards in accordance with IEC 60297



- Fitting with individual electrical or mechanical components, e.g. on mounting plates



One product platform and extensive accessories



05806008



05806006



02005003



02005006

- Practical technology without time-consuming assembly. The modular product platform of these cases allows a wide range of possible uses with only a small number of components.

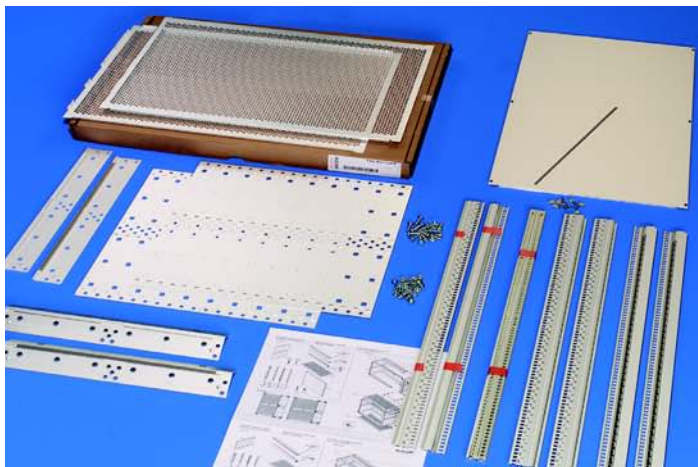
The intelligent design of all components results in an astonishingly quick and easy assembly of the components.

With our PRO product platform we offer you full compatibility of all individual components and accessories, also with our C-BOX PRO subracks.

Standard desk-top enclosures can also be adapted easily and with little effort for mobile applications.

Desk-top cases – Introduction

Forms of delivery for desk-top enclosures



Flat pack delivery to save space

06104001

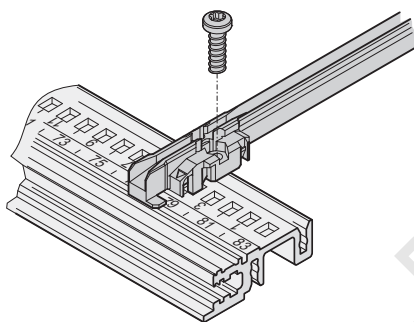
Supplied in space-saving packs. Simply unpack parts and screw together - done.

Depending on the kit chosen the threaded insert, the perforated rail or the EMC gasket is pre-assembled on the horizontal rail.

We offer you three forms of delivery:

- Pre-assembled kit for use with 160 mm deep euroboards, frame fitted, cladding parts and guide rails supplied loose.
- Pre-assembled kit for individual configuration, frame assembled, cladding parts supplied loose.
- Ready assembled cases to your specifications. With our **SERIES** option you can order ready-assembled cases, with drilled holes and cut-outs and individual front panels - if necessary even by express service.

Guide rail



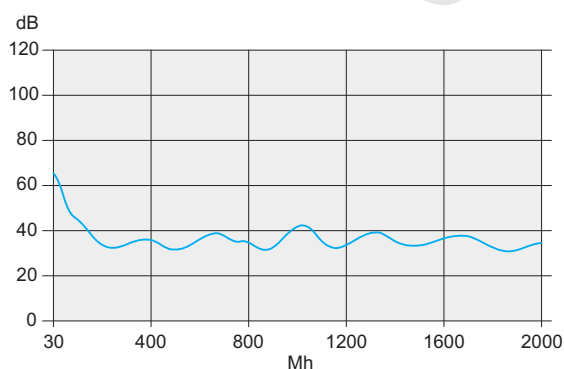
06108084

- Guide rails form the interface between the mechanics of the case and the electronics assembled (PCBs, plug-in units, frame type plug-in units, drive unit modules, etc.).

Robust snap-in fixings on the plastic rails assure that the components are held securely, even when exposed to vibrations.

Guide rails can also be screwed on.

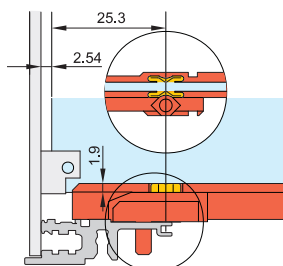
EMC and ESD



06108081

Shielding

- Our case product platforms offer standard solutions for achieving electromagnetic compatibility (EMC) and to avoid electrostatic interference (ESD)
- Shielding on the front and rear of the case is effected by front panels with EMC gaskets
- To prevent electrostatic discharge when inserting PCBs, ESD contacts are clipped into the guide rails. These provide a conductive connection between board and case earth/ground
- Test reports are available on our website www.c-box-tech.com for download



04503050

Position of the ESD clip

Desk-top cases – SERIES



configuration

Simple. Fast. For the product you want.

Components can be varied and combined freely

- Online configuration: [www.C-BOX .co.uk/configuration](http://www.C-BOX.co.uk/configuration)



assembly

Assembled by professionals. Double benefit!

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

- Professional and reliable, without extra costs
- Ready for despatch within 10 working days



modification

Small changes. Large impact.

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

- CAD data are available for you to download and further modify from our website www.c-box-tech.com
- Ready for despatch within 10 working days



solution

Simple. Fast. From one source.

Integration and custom developments

- Flowtherm simulation to calculate heat paths; verification in our own climate lab
- Special sizes, custom solutions



express

When fast has to be faster.

Delivery time to customer's request

- SERIES assembly ready for despatch within 10 working days
- SERIES modification and SERIES solution ready for despatch within 15 working days



academy

Knowledge. Sharing. Partnerships.

Knowledge transfer and partnership

- Seminars held centrally or at your site.
- CAD drawings, test reports, user manuals

Desk-top cases – SERIES

Application examples



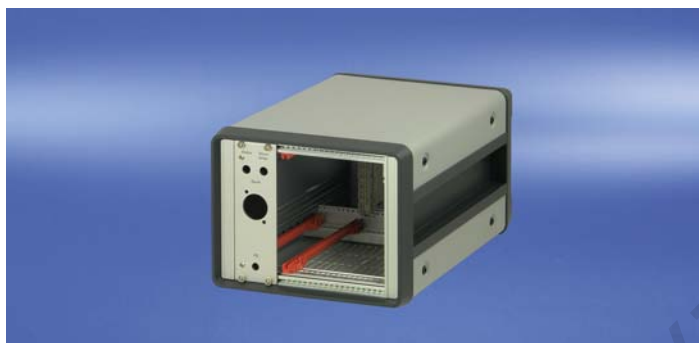
01809001

Application: C-BOX PRO-air case in special colour, shielded board cage, filter mat top and bottom



01809003

Application: C-BOX PRO-air case with processed front and rear panels



02009001

Application: compacPRO case, modified



02009003

Application: compacPRO case with fitted horizontal rail with lip and hinged front panel



02009002

Application: compacPRO case with fitted horizontal rail with lip and folding front panel



02009004

Application: compacPRO with tip-up carrying handle and front panel (without visible screws)



02109001

Application: inpac case with hinged and modified front and rear panels

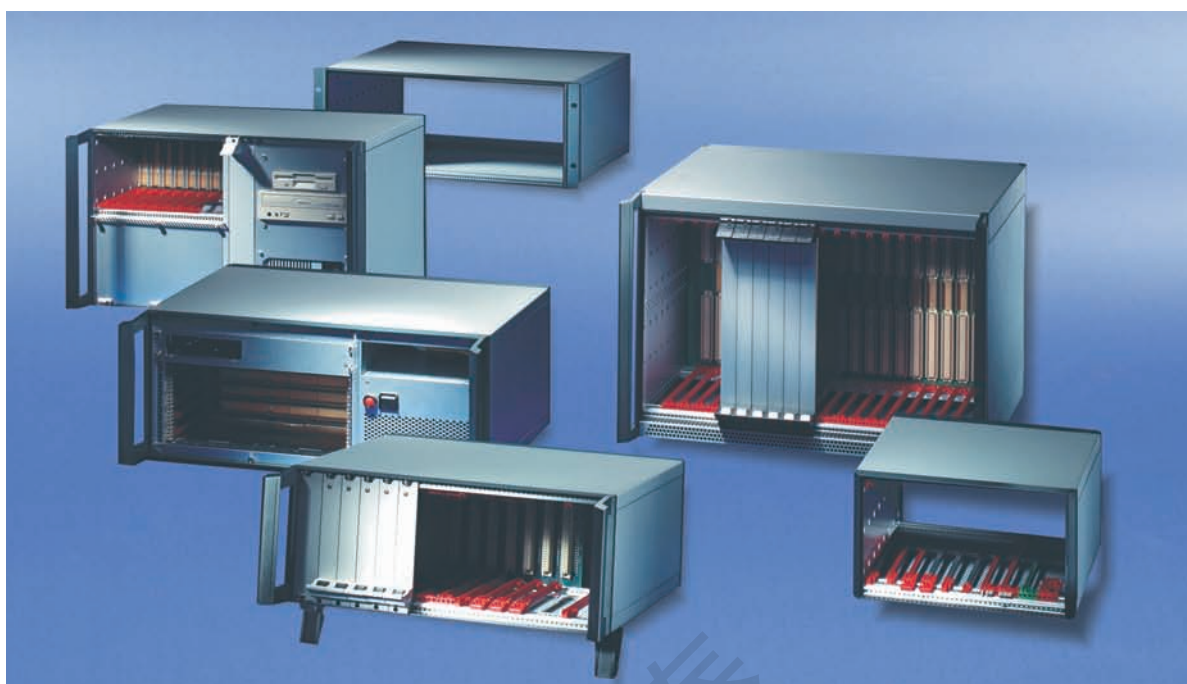


05809005

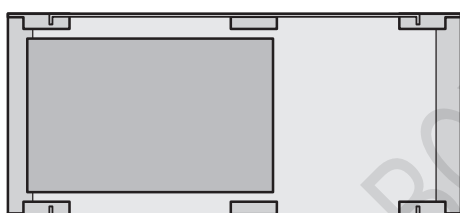
Application: propacPRO, EMC case in special colour with mounting plates for individual construction

Overview	0
Cabinets	1
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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

Desk-top cases – *ratio*pac**PRO**

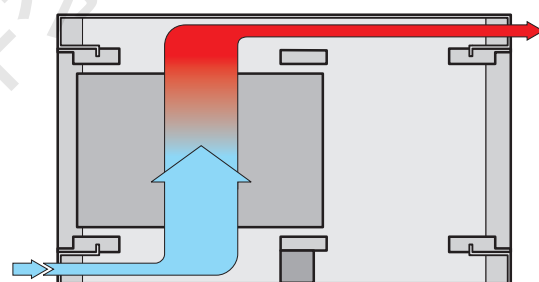


06800002



C-BOX PRO

Designed for insertion/extractor handles in accordance with IEC 60297-3-102 and IEEE 1101.10 for CompactPCI and VME64x applications



06801005

C-BOX PRO air

Designed for insertion/extractor handles in accordance with IEC 60297-3-102 and IEEE 1101.10 for CompactPCI and VME64x applications; 1 U extra for ventilation (1/2 U top, 1/2 U bottom)

Standards

- Inner and outer dimensions in accordance with:
IEC 60297-3-101 / IEEE 1101.1
IEC 60297-3-102 / IEEE 1101.10/11
- Type of protection IP20 in accordance with IEC 60529
- Earthing connections in accordance with:
DIN EN 50178 / VDE 0160
DIN EN 60950 / VDE 0805
DIN EN 61010-1 / VDE 0411 part 1
DIN EN 61010-1A2 / VDE 0411 part 1/A1
- EMC testing in accordance with VG 95373 part 15



06812001

Case with mounting plate



06800015

Prepared for CompactPCI and VME64x applications



Downloads and further important information can be found on the Internet under www.c-box-tech.com

Desk-top cases – *ratio*pac **PRO**

The universal case with 19" compatible dimensions
e.g. for CompactPCI, VME64x and other applications

- Base level of shielding in basic versions upwards, additional EMC shielding can be retrofitted
- Symmetrical construction, identical front and rear (identical board cage for C-BOX PRO and C-BOX PRO air)
- Converts simply from desktop to 19" rack-mounted case and back
- No visible screws; cladding parts removable without tools



06800005

C-BOX PRO

- Case with cover strip, front handles or 19" brackets (height 2 U ... 6 U)
- Complete case with cover strip and pre-mounted components, with basic shielding (height 3 U, 6 U), additional EMC shielding retrofittable
- Tower case (width 4 U)



06800005

C-BOX PRO air

- C-BOX PRO air with additional 1 U height for ventilation
- Case with cover strips, front handles or 19" brackets (height 4 U, 5 U, 7 U)
- Complete case with cover strips and pre-mounted components, with basic shielding (height 4 U, 7 U), additional EMC shielding retrofittable



30407004

SERIES from page 5.4

e.g. modifications (special colours or sizes)
e.g. custom solutions (cut-outs in top cover, base plate or side panels)
e.g. assembly service from 1 piece

www.c-box-tech.com / **SERIES**

Overview 5.6

C-BOX PRO

Complete cases . 5.8
Dimensions 5.9
Cases 5.10
Tower cases 5.12

C-BOX PRO air

Cases 5.14
Complete cases . 5.13
Dimensions 5.16
Radial fan units . 5.17
EMC gasketing .. 5.18

Accessories

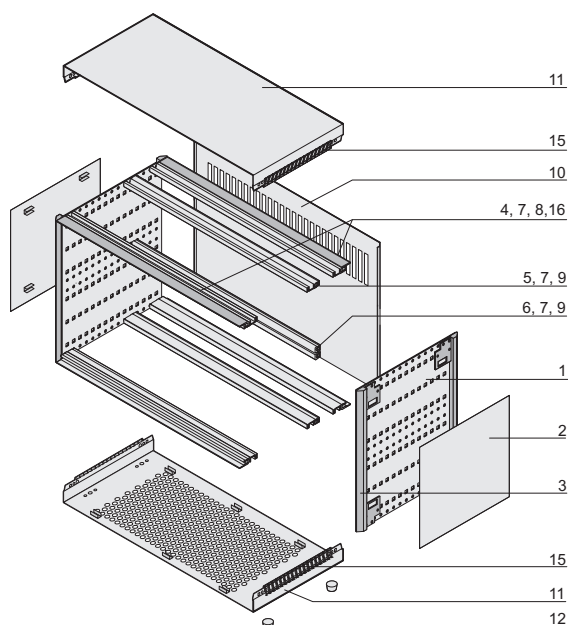
Front panels 5.21
Rear panels 5.22
Feet 5.23
Air filters 5.23
GND/earthing kit . 5.24
Front handles ... 5.24
19" brackets 5.25
Cable holder. ... 5.26
Compartment
seals. 5.26
Strap handles ... 5.26
Tip-up carrying
handles 5.27
Assembly kit. ... 5.28
Fitting position
of horizontal rails
..... 5.29
Horizontal rails. . 5.31
Threaded
inserts,
perforated strips,
insulation strips . 5.35
Z-rails,
perforated rails. . 5.35
Divider plates ... 5.36
Mounting plates . 5.37
Horizontal board
assembly 5.38
Combined
mounting 5.39
Guide rails and
ESD clips 5.40

SERIES .. 5.4

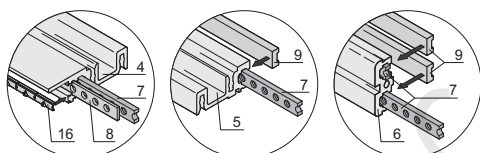
Desk-top cases – *ratio*pac PRO



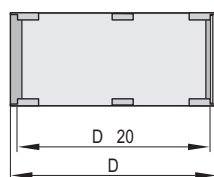
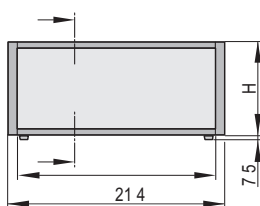
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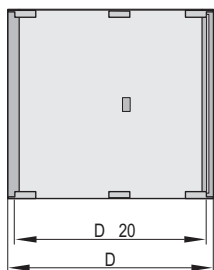
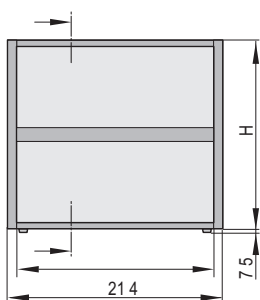


01808055



01808051

3 U



01808052

6 U

C-BOX PRO

complete cases

- Desk-top enclosure with pre-configured components, in accordance to IEC 60297-3-101; prepared for 19" components, e.g. plug-in units and euroboards
- Ventilation slit in base plate
- Rear panel perforated

Delivery comprises (in kit form)

Item	Qty	without EMC	with EMC	Description
1	2	2		Side panel, Al, 2 mm, passivated
2	2	2		Side plate, Al, 1 mm, visible surfaces RAL 9006
3	4	4		Cover strip, Al die-cast, RAL 7016, pre-fitted only on EMC version
4	4	4		Horizontal rail, type H-LD, Al, visible surfaces RAL 7016
5	2	2		Horizontal rail, centre (top/bottom), type H-ST, Al
6	1	1		Horizontal rail, centre (on 6 U only), type ST, Al
7	6/8	6/8		3 U/6 U: threaded inserts, St, pre-mounted, for indirect backplane mounting with insulation strips
8	–	4		Perforated strip, Al, 1 mm, pre-fitted
9	4	4		Insulation strip, PBT, UL 94 V-0
10	1	1		Rear panel, perforated, Al, 2.5 mm
11	2	2		Top cover and base plate, Al, 1 mm, internal surfaces conductive, visible surfaces RAL 9006, with GND/earthing connection, base plate with honeycomb grid ventilation
12	4	4		Case foot with anti-slip protection, UL 94 V-0, PC black
14	–	1		EMC support profile for side panel, pre-mounted (kit)
15	–	4		EMC contact strip for cover plate, pre-mounted (kit)
16	–	4		EMC contact strip front panel - horizontal rails
17	1	1		GND/earthing kit, assembly kit

Order Information

Height H	Width W	Depth D	Unshielded	EMC shielded
U	HP	mm	Part no.	Part no.
3	28	255.5	24572-001	24572-050
3	42	255.5	24572-002	24572-051
3	42	315.5	24572-003	24572-052
3	63	315.5	24572-004	24572-053
3	84	315.5	24572-005	24572-054
3	84	375.5	24572-006	24572-055
3	84	435.5	24572-007	24572-056
6	42	315.5	24572-015	24572-064
6	63	315.5	24572-016	24572-065
6	84	315.5	24572-017	24572-066
6	84	375.5	24572-018	24572-067
6	84	435.5	24572-019	24572-068

Note

- Dimension drawings and mounting depths see page 5.9
- Components see page 5.18
- Front handles and 19" mounting brackets from page 5.24
- Guide rails from page 5.40

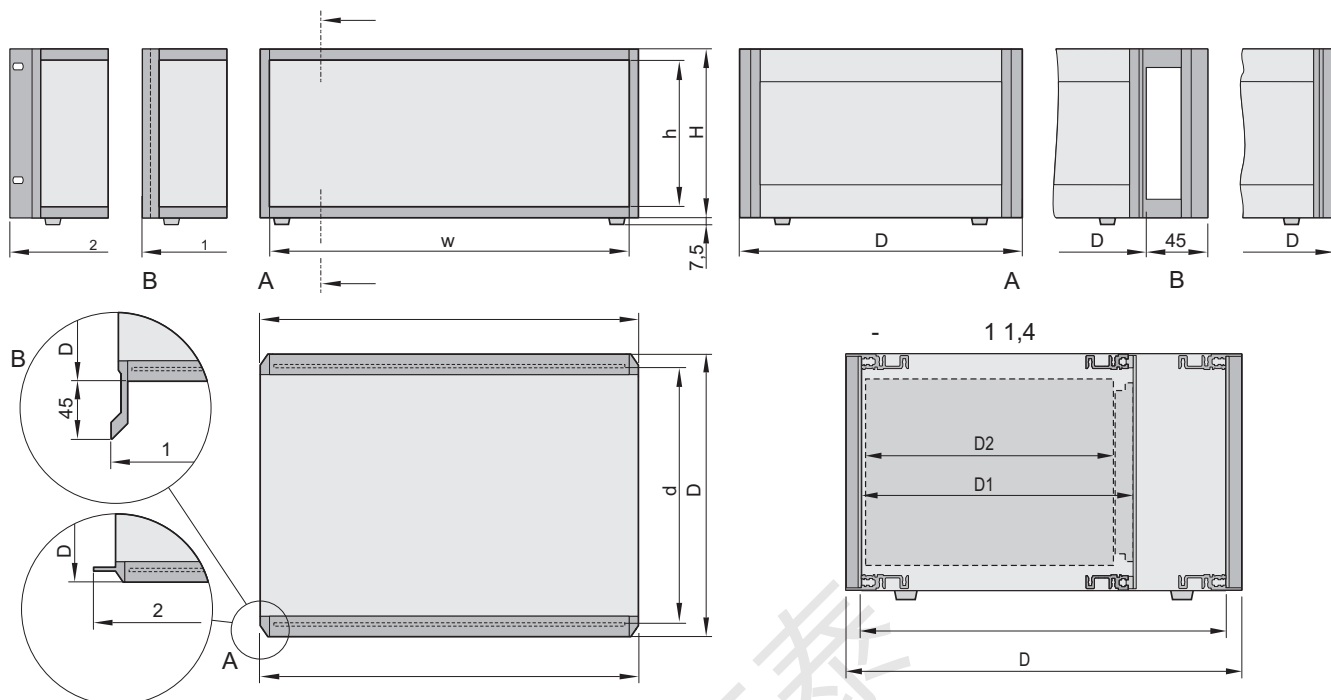


SERIES

see page 5.4

Desk-top cases – *ratio***pac**PRO

Dimension drawings C-BOX PRO



A = cover, B = front handle, C = 19" mounting bracket

rp6637

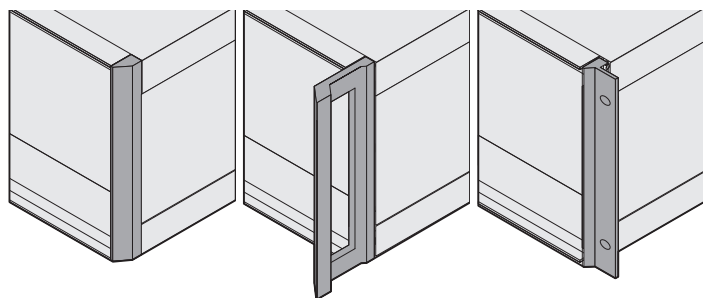
Dimensions table C-BOX PRO

Height			Width					Depth			
	H	h	w	W	w1	w2	w	D	d	D1	d2
in U	in mm	in mm	in HP	in mm	in mm	in mm	in mm	Total depth in mm	Useable depth in mm	Plug-in depth in mm	Board depth in mm
2	88.10	67.90	28	164.42	177.62	198.12	142.82	255.5	235.5	175.5	160
			42	235.54	248.74	269.24	213.94			235.5	220
			63	342.42	355.42	375.92	320.62			295.5	280
			84	448.90	462.10	482.60	427.30			355.5	340
3	132.55	112.35	28	164.42	177.62	198.12	142.82	315.5	295.5	175.5	160
			42	235.54	248.74	269.24	213.94			235.5	220
			63	342.42	355.42	375.92	320.62			295.5	280
			84	448.90	462.10	482.60	427.30			355.5	340
4	177.00	156.80	28	164.42	177.62	198.12	142.82	435.5	415.5	175.5	160
			42	235.54	248.74	269.24	213.94			235.5	220
			63	342.42	355.42	375.92	320.62			295.5	280
			84	448.90	462.10	482.60	427.30			355.5	340
5	221.45	201.25	28	164.42	177.62	198.12	142.82	495.5	475.5	175.5	160
			42	235.54	248.74	269.24	213.94			235.5	220
			63	342.42	355.42	375.92	320.62			295.5	280
			84	448.90	462.10	482.60	427.30			355.5	340
6	265.90	245.70	28	164.42	177.62	198.12	142.82	495.5	475.5	175.5	160
			42	235.54	248.74	269.24	213.94			235.5	220
			63	342.42	355.42	375.92	320.62			295.5	280
			84	448.90	462.10	482.60	427.30			355.5	340

Components mountable in 15 mm depth grid

Desk-top cases – *ratio***pac**PRO

C-BOX PRO cases

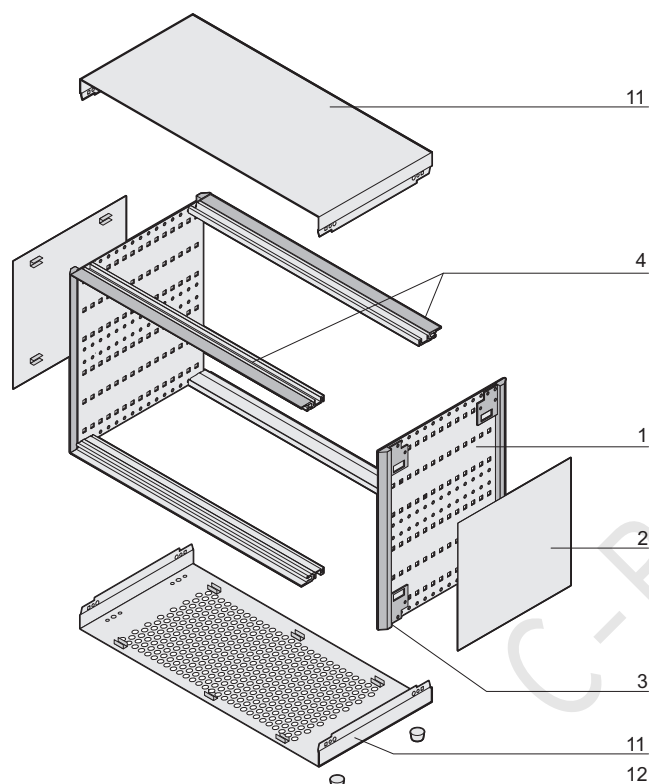


3a: Bezel

3b: Front handle

3c: 19\"/>

- Case for individual expansion, or to house 19\"/>
- Unshielded (EMC shielding retrofittable)
- Symmetrical design, identical front and rear side
- Available in three versions:
 - with cover strips
 - with front handles
 - with 19\"/>
- For board depths 160 mm, 220 mm, 280 mm and 340 mm



Delivery comprises (kit)

Item	Qty	Description
1	2	Side panel, Al, 2 mm, passivated
2	2	Side plate, Al, 1 mm, visible surfaces powder-coated, RAL 9006
3	2	Rear trim, Al die-cast, powder-coated, RAL 7016
3a	2	Bezel, Al die-cast, powder-coated, RAL 7016
3b	2	Front handle, Al die-cast, powder-coated, RAL 7016
3c	2	19\"/>
4	4	Horizontal rail, type H-LD, Al, visible surfaces powder-coated, RAL 7016
11	2	Top cover and base plate, Al, 1 mm, internal surfaces conductive, visible surfaces powder-coated, RAL 9006, with GND/earthing connections, base plate with honeycomb grid ventilation
12	4	Case foot with anti-slip protection, UL 94 V-0, PC black
13	1	Assembly kit

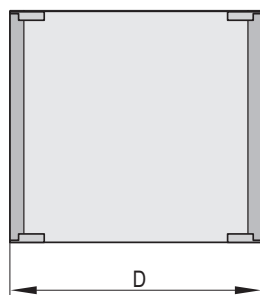
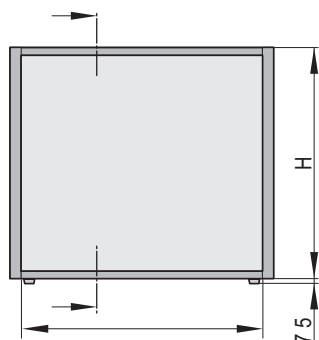
3a, 3b or 3c depending on selection

Note

- Order information, see following page



For further information www.c-box-tech.com/oneclick
oneClick search code = Part no.



01802051



SERIES

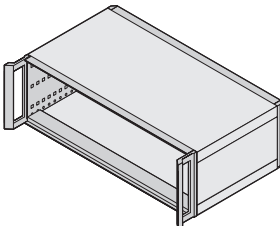
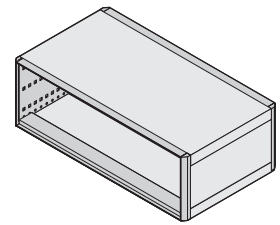
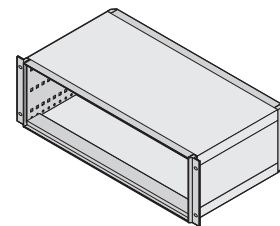
see page 5.4

Desk-top cases – *ratio***pac**PRO

C-BOX PRO

cases

Order Information

	Width w HP	Depth D mm	Case height H						
			2 U	3 U	4 U	5 U		6 U	
			Part no.	Part no.	Part no.	Part no.		Part no.	
			Side panel subdivision						
			(1 U-3 U-1 U)		(3 U-2 U)				
					1	3			
					3				
					1	2			
	with front handles	28	255.5		24571-702	24571-750	24572-213	24572-357	24571-798
		28	315.5		24571-705	24571-753	24572-216	24572-360	24571-801
		42	255.5		24571-714	24571-762	24572-225	24572-369	24571-810
		42	315.5		24571-717	24571-765	24572-228	24572-372	24571-813
		42	375.5		24571-718	24571-766	24572-229	24572-373	24571-814
		63	255.5		24571-726	24571-774	24572-237	24572-381	24571-822
		63	315.5		24571-729	24571-777	24572-240	24572-384	24571-825
		63	375.5		24571-730	24571-778	24572-241	24572-385	24571-826
		84	255.5		24571-738	24571-786	24572-249	24572-393	24571-834
		84	315.5		24571-741	24571-789	24572-252	24572-396	24571-837
		84	375.5		24571-742	24571-790	24572-253	24572-397	24571-838
		84	435.5		24571-743	24571-791	24572-254	24572-398	24571-839
	RPPR6630	84	495.5		24571-744	24571-792	24572-255	24572-399	24571-840
	with cover strips	28	255.5	24572-500	24571-002	24571-050	24572-117	24572-261	24571-098
		28	315.5	24572-503	24571-005	24571-053	24572-120	24572-264	24571-101
		42	255.5	24572-510	24571-014	24571-062	24572-129	24572-273	24571-110
		42	315.5	24572-513	24571-017	24571-065	24572-132	24572-276	24571-113
		42	375.5	24572-514	24571-018	24571-066	24572-133	24572-277	24571-114
		63	255.5	24572-520	24571-026	24571-074	24572-141	24572-285	24571-122
		63	315.5	24572-523	24571-029	24571-077	24572-144	24572-288	24571-125
		63	375.5	24572-524	24571-030	24571-078	24572-145	24572-289	24571-126
		84	255.5	24572-530	24571-038	24571-086	24572-153	24572-297	24571-134
		84	315.5	24572-533	24571-041	24571-089	24572-156	24572-300	24571-137
		84	375.5	24572-534	24571-042	24571-090	24572-157	24572-301	24571-138
		84	435.5	24572-535	24571-043	24571-091	24572-158	24572-302	24571-139
	RPPR6629	84	495.5	24572-536	24571-044	24571-092	24572-159	24572-303	24571-140
	with 19" mounting bracket	84	255.5	24572-570	24571-438	24571-486	24572-201	24572-345	24571-534
		84	315.5	24572-573	24571-441	24571-489	24572-204	24572-348	24571-537
		84	375.5	24572-574	24571-442	24571-490	24572-205	24572-349	24571-538
		84	435.5	24572-575	24571-443	24571-491	24572-206	24572-350	24571-539
	RPPR6631	84	495.5	24572-576	24571-444	24571-492	24572-207	24572-351	24571-540

Note

- Dimension drawings and mounting depths see page 5.9
- Components see page 5.18

Desk-top cases – *ratio***pac**PRO

C-BOX PRO tower with 4 U width



06802001

- Symmetrical design, identical front and rear side
- Mounting space 4 U, 84 HP, depth 475 mm
- Case based on C-BOX PRO
- Unshielded (EMC shielding retrofittable)

Delivery comprises (in kit form)

Item	Qty	Description
1	2	Base/top cover, Al, 2 mm, passivated
2	4	Horizontal rail, type H-LD, Al, visible surface powder-coated, RAL 7016
3	4	Cover, Al die-cast, RAL 7016
4	2	Lateral cover plate, Al, 1 mm, with GND/earthing connection, visible surfaces powder-coated, internal surface conductive, RAL 9006
5	1	Top cover plate, Al, 1 mm, visible surface powder-coated, RAL 9006
6	2	Case foot with anti-slip protection, Al, powder-coated, RAL 7016
7	1	Assembly kit

Order Information

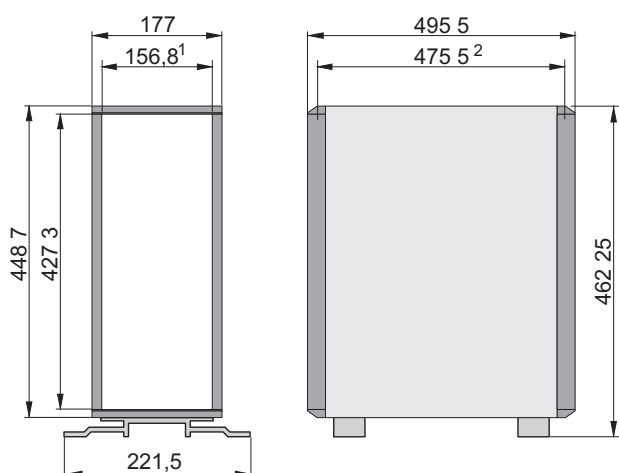
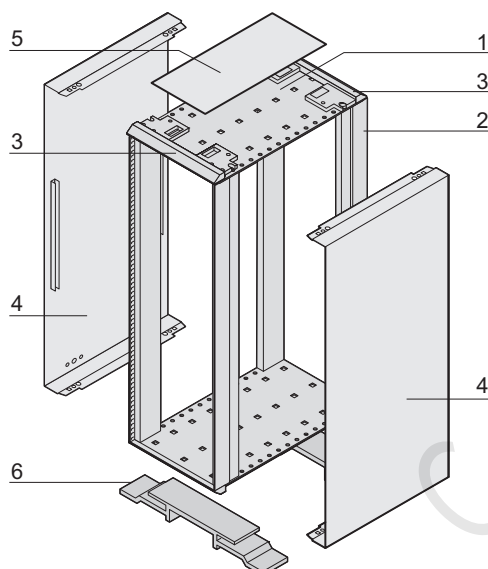
Width	Part no.
4 U	
4	24571-395

Note

- Components see page 5.18



For further information www.c-box-tech.com/oneclick
oneClick search code = Part no.



01802054

- 1) = open space between the horizontal rails
2) = max. mounting depth



SERIES

see page 5.4

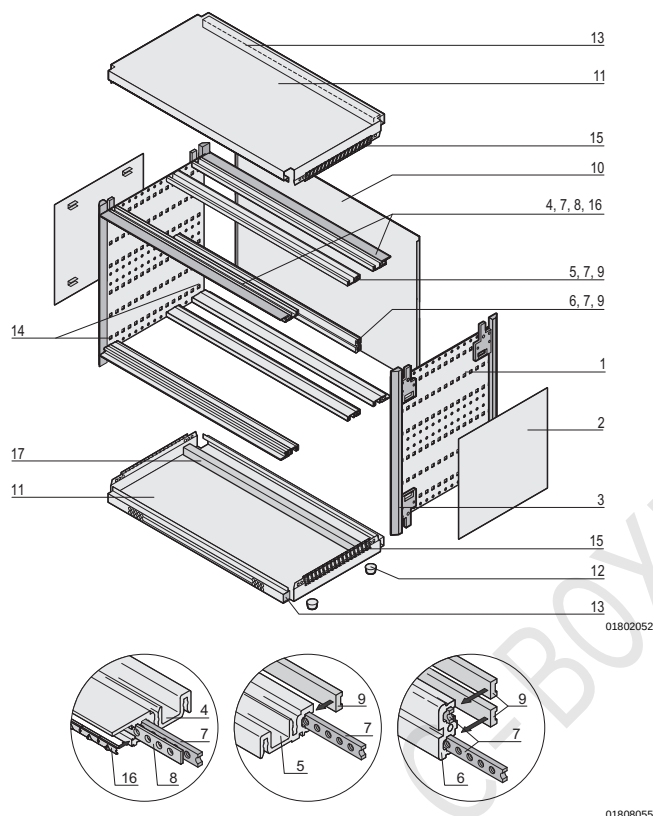
Desk-top cases – *ratio***pac**PRO air

C-BOX PRO

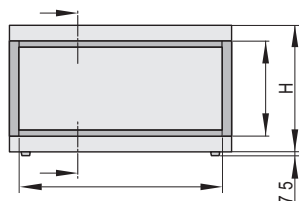
air complete cases



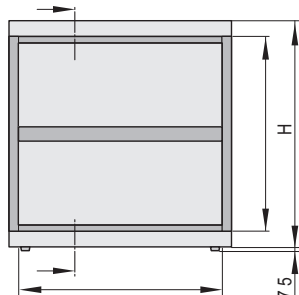
06811001



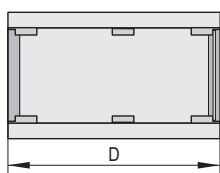
01802052



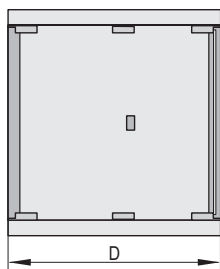
3 U



6 U



01808053



01808054

- The case has 2 x 1/2 U clearance for ventilation
- Case with cover strip; with pre-mounted components for euroboards and backplane with insulation strip; no visible screws
- Symmetrical design, identical front and rear honeycomb grid ventilation in top cover and base plate
- Available in two versions:
 - unshielded (EMC shielding retrofittable)
 - with EMC shielding fitted

Delivery comprises (in kit form)

Item	Qty without EMC	with EMC	Description
1	2	2	Side panel, Al, 2 mm, passivated
2	2	2	Side plate, Al, 1 mm, visible surface RAL 9006
3	4	4	Cover, die-cast zinc, RAL 7016, pre-mounted on EMC version only
4	4	4	Horizontal rail, type H-LD, Al, visible surface RAL 7016
5	2	2	Horizontal rail, centre (top/bottom), type H-ST, Al
6	1	1	Horizontal rail, centre (on 6 U only), type ST, Al
7	6/8	6/8	4 U/7 U: threaded inserts, St, pre-mounted, for indirect backplane mounting with insulation strips
8	–	4	Perforated strip, pre-mounted
9	4	4	Insulation strip, PBT, UL 94 V-0
10	1	1	Rear panel, Al, 2.5 mm
11	2	2	Top cover and base plate with honeycomb grid ventilation, Al, 1 mm, internal surface conductive, visible surface RAL 9006, with GND/earthing connection
12	4	4	Case foot with anti-slip protection, UL 94 V-0, PC, black
13	2	2	Air filter
14	–	1	EMC support profile for side panel, fitted (kit)
15	–	4	EMC contact strip for cover plate, pre-mounted (kit)
16	–	4	EMC contact strip front panel - horizontal rails
17	1	1	Compartment seal, PE foam, self-adhesive, temperature range -20 °C ... +85 °C
18	1	1	GND/earthing kit, assembly kit

Order Information

Case height H	PCB height h	Width w	Depth D	Unshielded Part no.	EMC shielded Part no.
U	U	HP	mm		
4	3	28	255.5	24572-025	24572-074
4	3	42	255.5	24572-026	24572-075
4	3	42	315.5	24572-027	24572-076
4	3	63	315.5	24572-028	24572-077
4	3	84	315.5	24572-029	24572-078
4	3	84	375.5	24572-030	24572-079
4	3	84	435.5	24572-031	24572-080
7	6	42	315.5	24572-040	24572-088
7	6	63	315.5	24572-041	24572-089
7	6	84	315.5	24572-042	24572-090
7	6	84	375.5	24572-043	24572-091
7	6	84	435.5	24572-044	24572-092

Note

- Dimension drawings and mounting depths see page 5.16
- Components see page 5.18
- Front handles and 19" mounting brackets from page 5.24
- Guide rails from page 5.40



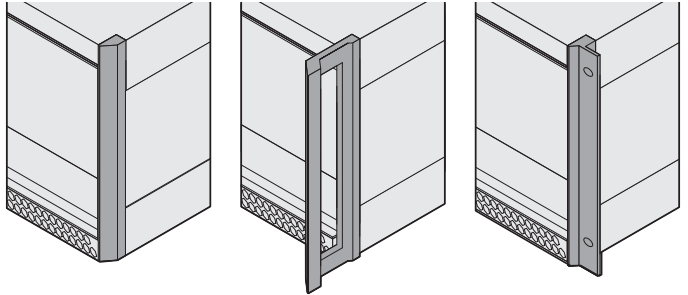
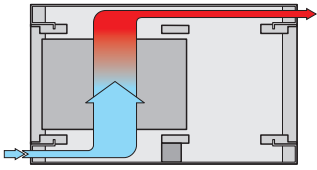
SERIES

see page 5.4

Desk-top cases – *ratio*pac**PRO** air

C-BOX PRO

air cases



3a: Bezel

3b: Front handle

3c: 19" mounting bracket

Delivery comprises (in kit form)

Item	Qty	Description
1	2	Side panel, Al, 2 mm, passivated
2	2	Side plate, Al, 1 mm, visible surface powder-coated, RAL 9006
3	2	Rear trim, Zn die-cast, powder-coated, RAL 7016
3a	2	Cover strip, Zn die-cast, powder-coated, RAL 7016
b3	2	Front handle, Al die-cast, powder-coated, RAL 7016
3c	2	19" mounting angle, Al die-cast, powder-coated, RAL 7016
4	4	Horizontal rail, type H-LD, Al, visible surface powder-coated, RAL 7016
11	2	Top cover and base plate, Al, 1 mm, internal surface conductive, visible surfaces powder-coated, RAL 9006, with GND/earthing connections, top cover and base plate with honeycomb grid ventilation
12	4	Case foot with anti-slip protection, UL 94 V-0, PC, black
13	2	Air filter
14	1	Assembly kit

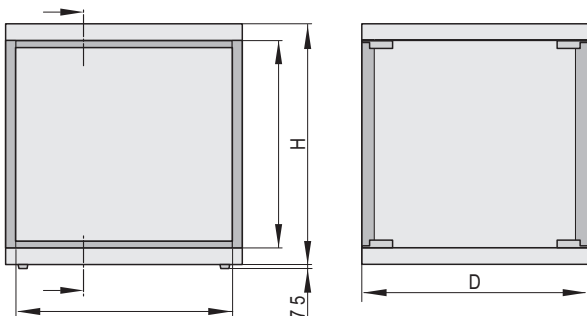
3a, 3b or 3c depending on selection

Note

- Order information see following page



For further information www.c-box-tech.com/oneclick
oneClick search code = Part no.



01802053



SERIES

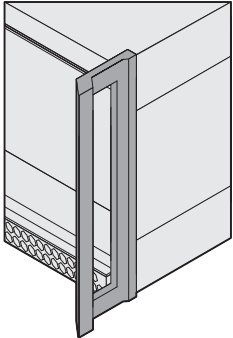
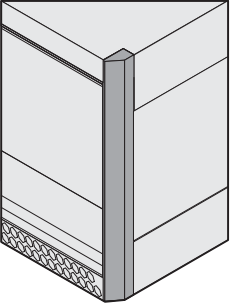
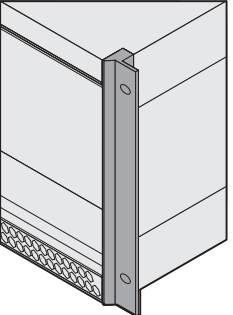
see page 5.4

Desk-top cases – *ratio***pac**PRO air

C-BOX PRO

air cases

Order Information

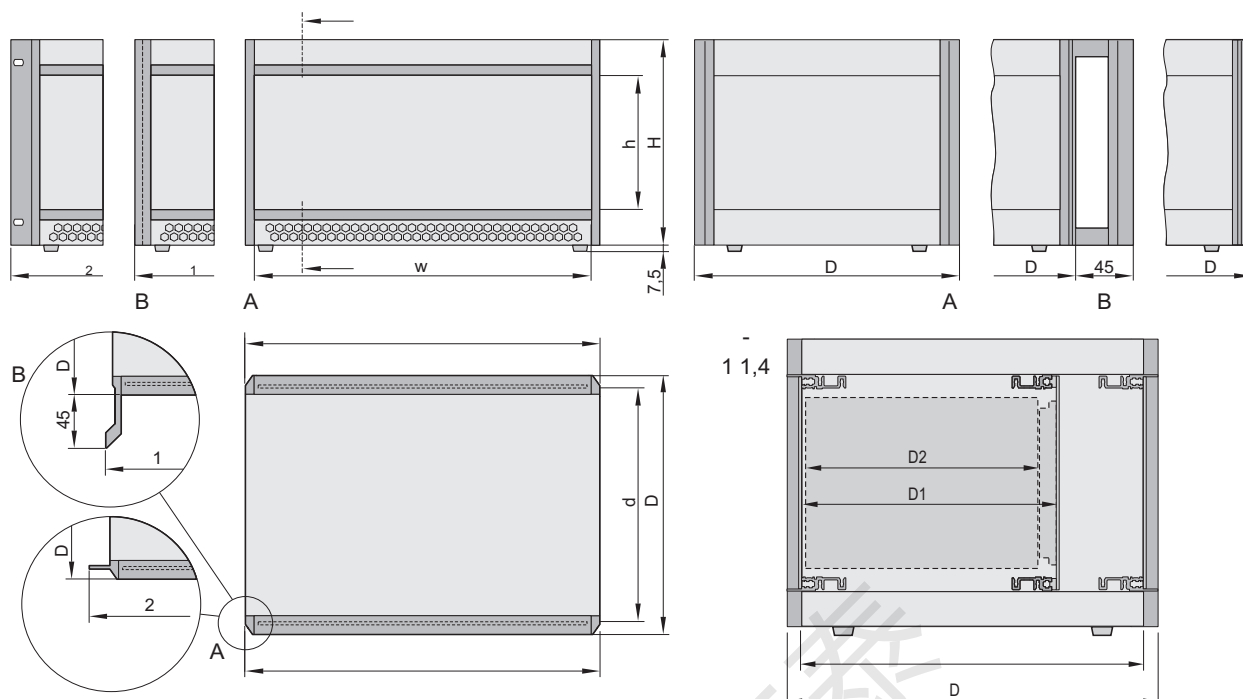
	Width w	Depth D	Case height H		
			4 U	5 U	7 U
			PCB height h		
			3 U	4 U (3+1 U)	6 U
					
	HP	mm	Part no.	Part no.	Part no.
with front handles 	28	255.5	24571-846	24571-894	24571-942
	28	315.5	24571-849	24571-897	24571-945
	42	255.5	24571-858	24571-906	24571-954
	42	315.5	24571-861	24571-909	24571-957
	42	375.5	24571-862	24571-910	24571-958
	42	435.5	24571-863	24571-911	24571-959
	63	315.5	24571-873	24571-921	24571-969
	63	375.5	24571-874	24571-922	24571-970
	63	435.5	24571-875	24571-923	24571-971
	84	255.5	24571-882	24571-930	24571-978
	84	315.5	24571-885	24571-933	24571-981
	84	375.5	24571-886	24571-934	24571-982
	84	435.5	24571-887	24571-935	24571-983
	84	495.5	24571-888	24571-936	24571-984
01805056					
with cover strips 	28	255.5	24571-146	24571-194	24571-242
	28	315.5	24571-149	24571-197	24571-245
	42	255.5	24571-158	24571-206	24571-254
	42	315.5	24571-161	24571-209	24571-257
	42	375.5	24571-162	24571-210	24571-258
	63	255.5	24571-170	24571-218	24571-266
	63	315.5	24571-173	24571-221	24571-269
	63	375.5	24571-174	24571-222	24571-270
	63	435.5	24571-175	24571-223	24571-271
	84	255.5	24571-182	24571-230	24571-278
	84	315.5	24571-185	24571-233	24571-281
	84	375.5	24571-186	24571-234	24571-282
	84	435.5	24571-187	24571-235	24571-283
	84	495.5	24571-188	24571-236	24571-284
01805055					
with 19" mounting brackets 	84	255.5	24571-582	24571-630	24571-678
	84	315.5	24571-585	24571-633	24571-681
	84	375.5	24571-586	24571-634	24571-682
	84	435.5	24571-587	24571-635	24571-683
	84	495.5	24571-588	24571-636	24571-684
01805057					

Note

- Dimension drawings and mounting depths see page 5.16
- Components see page 5.18

Desk-top cases – *ratio*pac**PRO** air

Dimension drawings C-BOX PRO air



01805058

A = cover, B = front handle, C = 19" mounting bracket

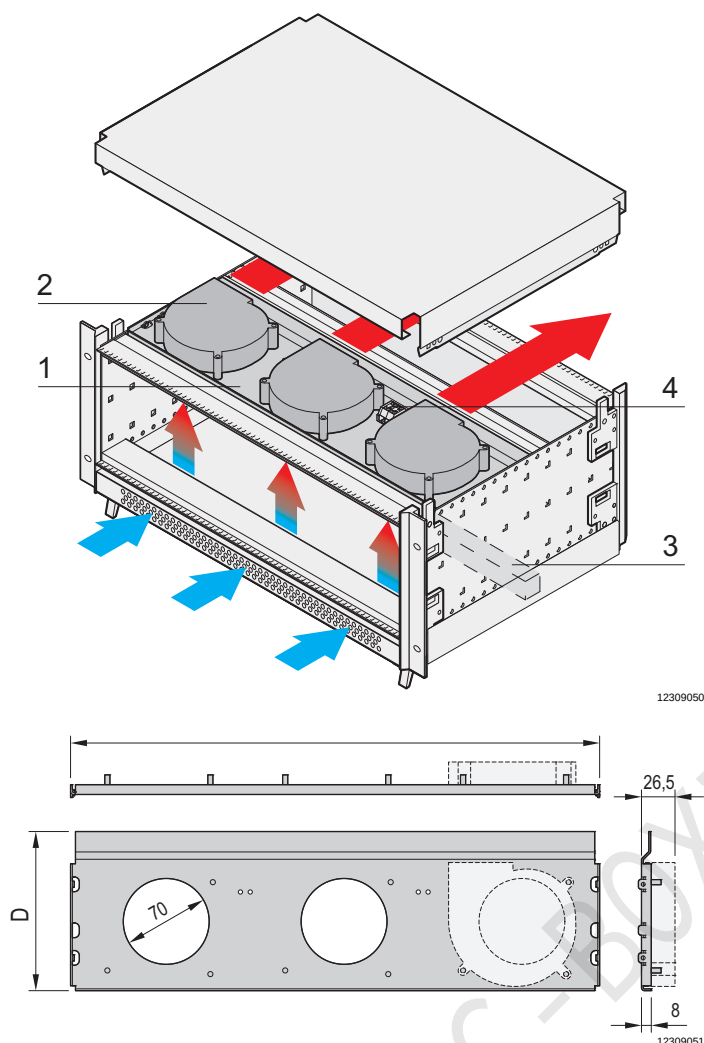
Dimensions table C-BOX PRO air

Height		Width						Depth			
in U	H in mm	h in mm	in HP	W in mm	w1 in mm	w2 in mm	w in mm	D Total depth in mm	d Usable depth in mm	D1 Plug-in depth in mm	d2 Board depth in mm
4	177..00	112.35	28	164.42	177.62	198.12	142.82	255.5	235.5	175	160
			42	235.54	248.74	269.24	213.94			235	220
			63	342.42	355.42	375.92	320.62	315.5	295.5	175	160
			84	448.90	462.10	482.60	427.30			235	220
5	221.45	156.80	42	235.54	248.74	269.24	213.94	375.5	355.5	295	280
			63	342.42	355.42	375.92	320.62			175	160
			84	448.90	462.10	482.60	427.30			235	220
7	310.35	245.70	42	235.54	248.74	269.24	213.94	435.5	415.5	295	280
			63	342.42	355.42	375.92	320.62			355	340
			84	448.90	462.10	482.60	427.30			175	160
										235	220
								495.5	475.5	295	280
										355	340
										175	160
										235	220

Components mountable in 15 mm depth grid

Desk-top cases – *ratio***pac***PRO* air

Radial fan unit for C-BOX PRO air



Depth D: 129.8 / 189.9 mm for 160 mm / 220 mm euroboards

- Only 1/2 U height
- Ball-bearing radial fans
- Fan holder in 4 widths and 2 depths
- Air capacity 36 m³/h (free blowing) per fan
- Air exhaust via perforation in cover plate
- No mechanical modification to case necessary
- Simple mounting
- No restriction to rear mounting space

Delivery comprises (Kit)

Item	Qty	Description
1	1	Fan support, Al, 1.5 mm, with crimp sockets for mounting the fans
2	1-3	Radial fan, ball bearing, 12 V _{DC} ; airflow volume (50 Hz) 36 m ³ /h, free blowing; power consumption 6.7 W; connecting cable 300 mm, without plug (AWG 26); noise level in dB (A): 47.0; max. static pressure in Pa: 190; max. ambient temperature: 60 °C; fan housing and rotor: UL 94 V-0
3	1	Compartment seal, PE foam, UL 94, self-adhesive, temperature range -20 °C ... +85 °C
4	1	Terminal clamp, UL 90 V-0
5	1	Assembly kit

Order Information

Width	Width	Number of fans	Part no. for PCB depth	
HP	mm		160 mm	220 mm
28	146.87	1	24572-404	24572-408
42	218.00	1	24572-405	24572-409
63	324.67	2	24572-406	24572-410
84	431.35	3	24572-407	24572-411

Note

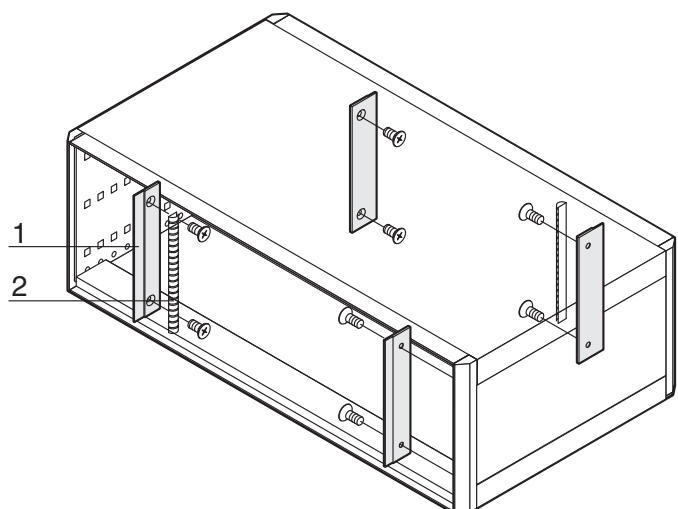
- Further configurations available on request
- Fans with tachometer signal available on request



For further information www.c-box-tech.com/oneclick
oneClick search code = Part no.

Desk-top cases – *ratio***pac***PRO* / -air

EMC sealing front/rear panel to side panel



rprr6639

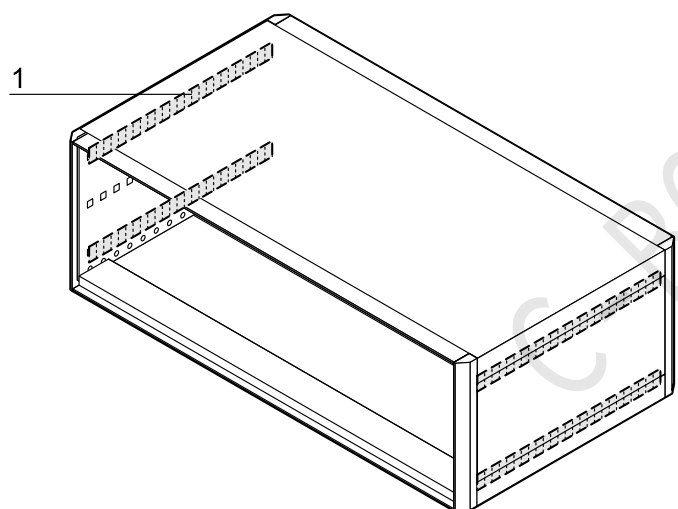
- For vertical EMC shielding between sub-assemblies and side panel
- Scope of delivery sufficient for one case

Delivery comprises (kit)

Item	Qty	Description
1	4	EMC support profile, Al extrusion
2	2	EMC sealing (textile), core: foam, sleeve: textile cladding with CuNi coating
3	1	Assembly kit

Order Information

For case height	Part no.
U	
2, 3-air	24571-334
3, 4-air	24571-331
4, 5-air	24571-332
6, 7-air	24571-333
5, 6-air	24571-335



RPPR6640

EMC sealing side panel to cover plate

- For horizontal EMC shielding between side panels and cover plates
- Scope of delivery sufficient for one case

Delivery comprises (kit)

Item	Qty	Description
1	4	Contact strip, stainless steel

Order Information

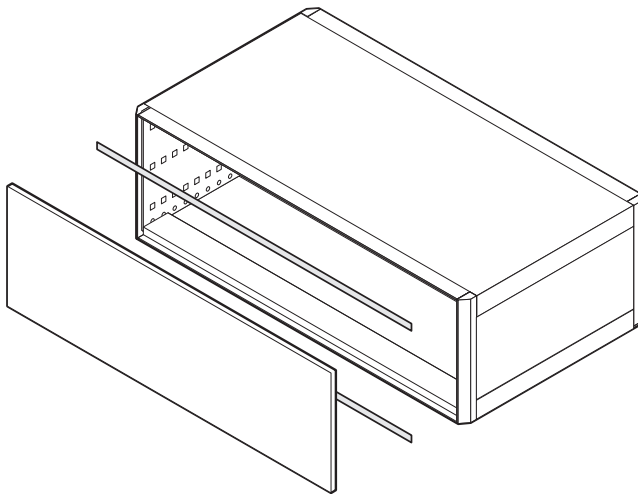
Depth mm	Part no.
255	24571-338
315	24571-339
375	24571-340
435	24571-341
495	24571-342



For further information www.c-box-tech.com/oneclick
oneClick search code = Part no.

Desk-top cases – *ratio***pac***PRO* / -air

EMC sealing front/rear panel to horizontal rail



rprr6739

- The contact strip is clipped onto the horizontal rail and sets up the contact to front panel or rear panel
- Can be used for rear horizontal rails (H-VT, L-VT) and all front horizontal rails

Delivery comprises

Item	Qty	Description
1	10/100	Stainless steel EMC gasket

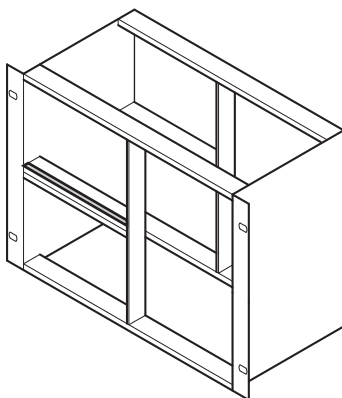
Order Information

Width HP	Width mm	Qty/PU	Part no.
28	131.78	10	24560-229
42	202.9	10	24560-231
63	304.8	10	24560-233
84	416.3	10	24560-235
84	416.3	100	24560-236

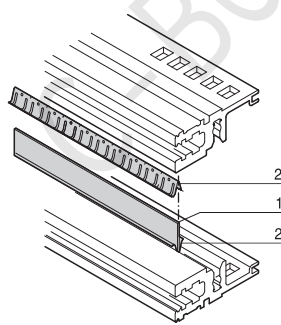


For further information www.c-box-tech.com/oneclick
oneClick search code = Part no.

EMC sealing horizontal rail to horizontal rail



BPA46548



BZA45877

- For shielding of two horizontal rails located directly above each other with vertical division of the mounting height

Delivery comprises

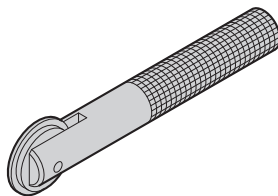
Item	Qty	Description
1	1	Cover strip, Al, 1 mm
2	2	Contact spring, St, stainless

Order Information

Length HP	Part no.
20	24562-520
28	24562-528
40	24562-540
42	24562-542
63	24562-563
84	24562-584
Assembly tool for EMC sealing, St, stainless (horizontal rails), 1 piece	
	24560-271



For further information www.c-box-tech.com/oneclick
oneClick search code = Part no.

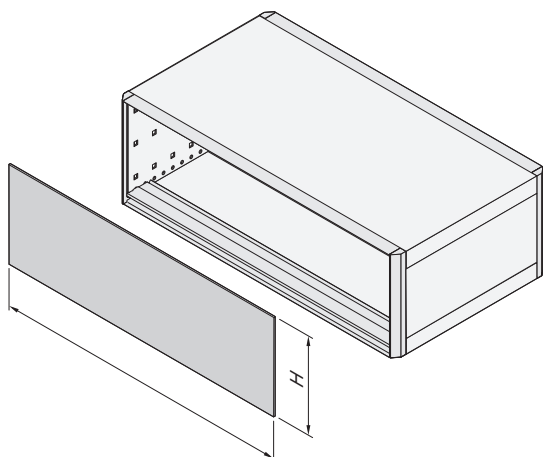


aza45937

Assembly tool

Desk-top cases – *ratio***pac***PRO* / -air

EMC front/rear panel, slotted, shielded



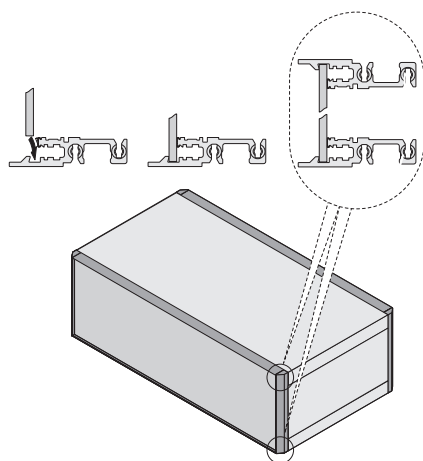
- No screws required for fixing
- Special horizontal rails cover the edges of the front panel (top and bottom) and prevent bowing of the front panel

NEW

Delivery comprises (Kit)

Item	Qty	Description
1	1	Full-width front panel, Al, 2.5 mm, front: anodised, rear: colour passivated
2	2	Horizontal rail, front; special for this front panel
3	4	EMC support profile
4	2	Contact strip horizontal rail - front panel
5	3	EMC textile gasket
6	1	Fixing material kit, user manual

01811055



Front panel/horizontal rail

01811056

Order Information

For case height	Height H	For case width	Width W	Part no.
U	mm	HP	mm	
2, 3-air	84.0	28	141.9	24572-599
2, 3-air	84.0	42	213.2	24572-600
2, 3-air	84.0	63	319.7	24572-601
2, 3-air	84.0	84	426.4	24572-602
3, 4-air	128.4	28	141.9	24572-603
3, 4-air	128.4	42	213.2	24572-604
3, 4-air	128.4	63	319.7	24572-605
3, 4-air	128.4	84	426.4	24572-606
4, 5-air	172.9	28	141.9	24572-607
4, 5-air	172.9	42	213.2	24572-608
4, 5-air	172.9	63	319.7	24572-609
4, 5-air	172.9	84	426.4	24572-610

Note

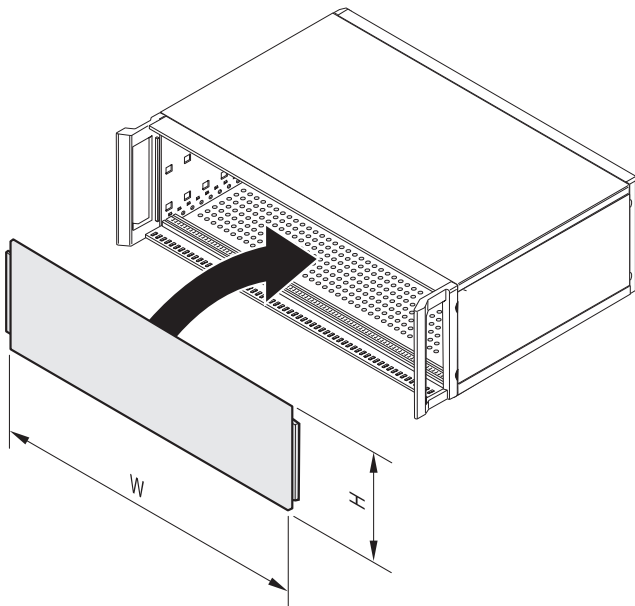
- To obtain a shielded case, all EMC sealings must be fitted (front panel/rear panel - side panel; side panel - cover plate; front panel/rear panel - horizontal rail; horizontal rail - horizontal rail)
- EMC sealing see from page 5.18



For further information www.c-box-tech.com/oneclick
oneClick search code = Part no.

Desk-top cases – *ratio***pac***PRO* / -air

Full-width front panel, slotted, unshielded



06801502

- Front panels can also be used as rear panels
- No screws required for fixing
- Inserted between side panel and castings such as trim, 19" mounting bracket or handle

Delivery comprises

Item	Qty	Description
1	1	Front panel, Al, 2.5 mm, front: anodised, rear: colour passivated

Order Information

For case height	Height H	For case width	Width W	Part no.
U	mm	HP	mm	
2, 3-air	84	28	141.9	34571-617
2, 3-air	84	42	213.2	34571-618
2, 3-air	84	63	319.7	34571-619
2, 3-air	84	84	426.4	34571-620
3, 4-air	128.4	28	141.9	34571-605
3, 4-air	128.4	42	213.2	34571-606
3, 4-air	128.4	63	319.7	34571-607
3, 4-air	128.4	84	426.4	34571-608
4, 5-air	172.9	28	141.9	34571-609
4, 5-air	172.9	42	213.2	34571-610
4, 5-air	172.9	63	319.7	34571-611
4, 5-air	172.9	84	426.4	34571-612
5, 6-air	217.3	28	141.9	34571-621
5, 6-air	217.3	42	213.2	34571-622
5, 6-air	217.3	63	319.7	34571-623
5, 6-air	217.3	84	426.4	34571-624
6, 7-air	261.8	28	141.9	34571-613
6, 7-air	261.8	42	213.2	34571-614
6, 7-air	261.8	63	319.7	34571-615
6, 7-air	261.8	84	426.4	34571-616

Note

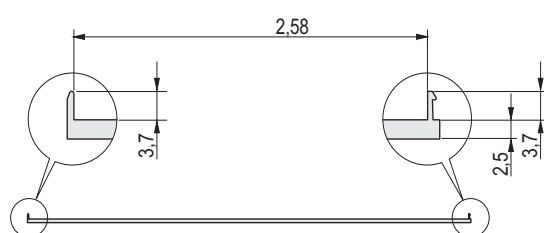
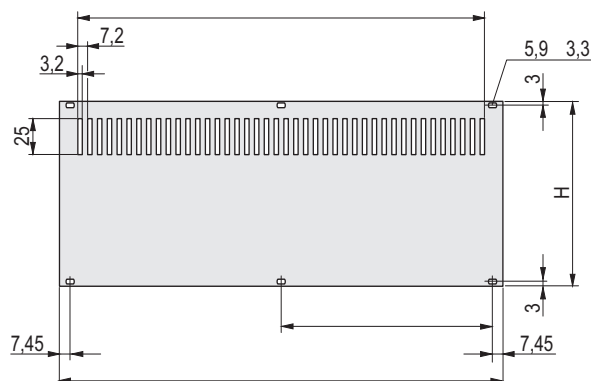
- Screw-fixed front panels see chapter Front panels, page 7.4



For further information www.c-box-tech.com/oneclick
oneClick search code = Part no.

Desk-top cases – *ratio***pac***PRO* / -air

Rear panels with ventilation slots



Shieldable



Unshielded

01802055

01804050

- Two versions:
unshielded, Al, 2.5 mm;
shieldable, Al extrusion (textile EMC seal, retrofittable)
- Mounting on horizontal rails (top and bottom)

Delivery comprises

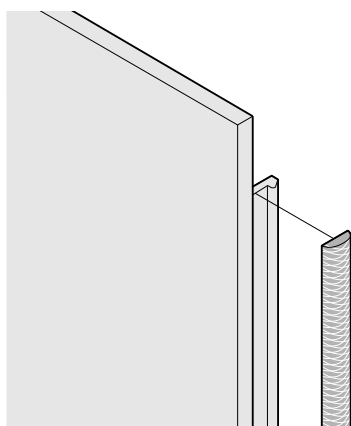
Item	Qty	Description
1	1	Rear panel, Al, 2.5 mm, front: anodised, rear: iridescent green chromated; unshielded or shieldable with EMC seal (textile)

Order Information

Height U	H mm	Width W HP mm	B mm	unshielded Part no.	shieldable Part no.
2, 3-air	84	28	141.9	–	30849-007 20848-679
2, 3-air	84	42	213	101.6	30849-014 20848-680
2, 3-air	84	63	319.7	157.5	30849-015 20848-681
2, 3-air	84	84	426.4	208.3	30849-016 20848-682
3, 4-air	128.4	28	141.9	–	30849-008 20848-633
3, 4-air	128.4	42	213	101.6	30849-021 20848-634
3, 4-air	128.4	63	319.7	157.5	30849-022 20848-635
3, 4-air	128.4	84	426.4	208.3	30849-023 20848-636
4, 5-air	172.9	28	141.9	–	30849-009 20848-656
4, 5-air	172.9	42	213	101.6	30849-028 20848-657
4, 5-air	172.9	63	319.7	157.5	30849-029 20848-658
4, 5-air	172.9	84	426.4	208.3	30849-030 20848-659
5, 6-air	217.3	28	141.9	–	30849-011 20848-744
5, 6-air	217.3	42	213	101.6	30849-171 20848-745
5, 6-air	217.3	63	319.7	157.5	30849-172 20848-746
5, 6-air	217.3	84	426.4	208.3	30849-173 20848-747
6, 7-air	261.8	28	141.9	–	30849-010 20848-640
6, 7-air	261.8	42	213	101.6	30849-035 20848-641
6, 7-air	261.8	63	319.7	157.5	30849-036 20848-642
6, 7-air	261.8	84	426.4	208.3	30849-037 20848-643

- Please order textile EMC seals separately
- Assembly parts see page Chapter 7, Front panels
- Rear/front panels without perforation see Chapter 7, Front panels
- Rear panels with fan available on request

Textile EMC seals



04602054

Delivery comprises

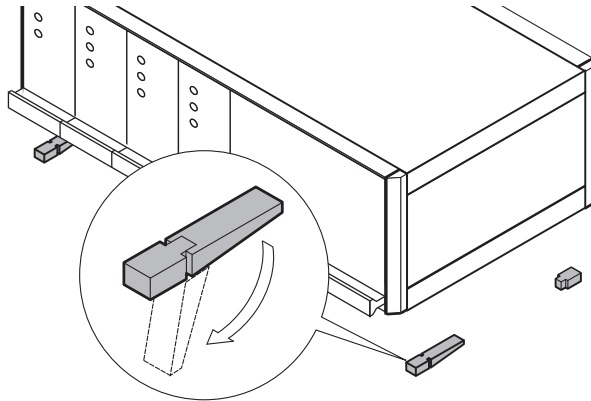
Item	Qty	Description
1	10/100	Textile EMC seal, core: foam, sleeve: textile cladding with CuNi coating

Order Information

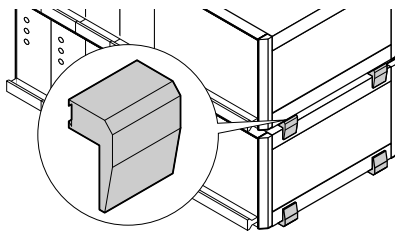
Height U	Height mm	Qty/PU pieces	Part no.
2, 3-air	52	10	21101-857
3, 4-air	97	100	21101-854
3, 4-air	97	10	21101-853
4, 5-air	142	10	21101-858
5, 6-air	187	10	21101-978
6, 7-air	232	100	21101-856
6, 7-air	232	10	21101-855

Desk-top cases – *ratio***pac***PRO* / -air

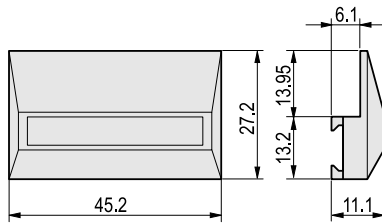
Tip-up feet and stacking aid/design element



Tip-up foot



Stacking aid/design element



- Can be used instead of standard feet
- Carrying capacity: 25 kg per foot
- Mounting holes in bottom of casing

Delivery comprises ((kit))

Item	Qty	Description
1	4	Foot, PA, UL 94 V-0
2	4	Anti-slip protection, TPE
3	2	Tip-up device, PA, UL 94 V-0
4	1	Assembly kit

Order Information

Description	Part no.
Tip-up foot, silver, similar to RAL 9006	20603-001
Tip-up foot, anthracite, similar to RAL 7016	20603-002
Stacking aid/design element silver, similar to RAL 9006, PA, UL 94 V-0, PU 4 pieces	20603-004
Stacking aid/design element anthracite, similar to RAL 7016, PA, UL 94 V-0, PU 4 pieces	20603-003

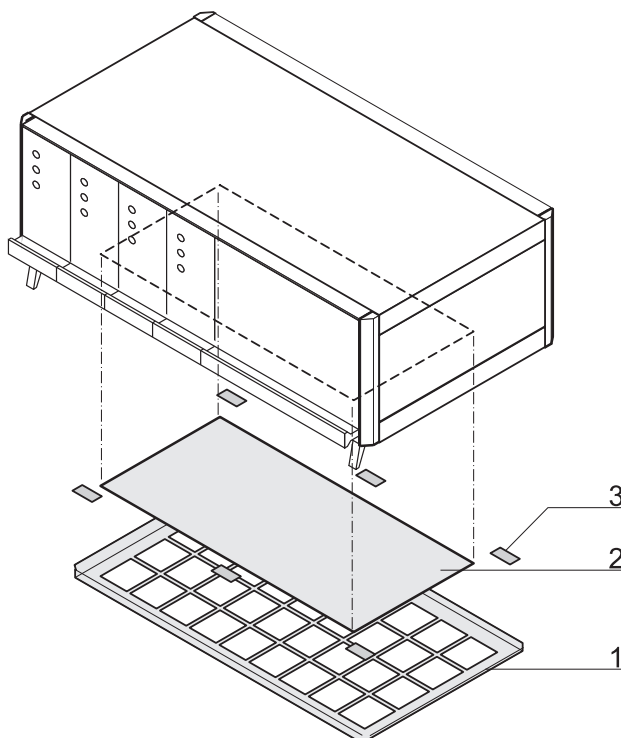
Note

- Tip-up feet are required to mount the stacking aid



For further information www.c-box-tech.com/oneclick
oneClick search code = Part no.

Air filters for C-BOX PRO air



- Retrofit mounting without reworking and tools
- Filter replacement without opening the case, IP protection retained

Delivery comprises (kit)

Item	Qty	Description
1	1	Filter holder, Al, 1 mm, powder-coated, RAL 9006
2	1	Filter mat, synthetic fibre
3	1	Self-adhesive fixings

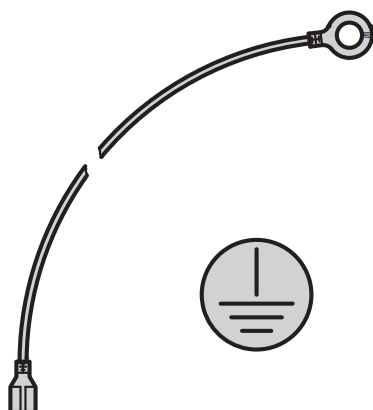
Order Information

For case width	Air filter	Replacement filter 1 piece
HP	Part no.	Part no.
28	24571-325	64571-033
42	24571-326	64571-034
63	24571-327	64571-035
84	24571-328	64571-036

- To optimise the air supply, tip-up feet must be fitted to the case, see page 5.23

Desk-top cases – *ratio***pac***PRO* / -air

Earthing kit



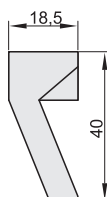
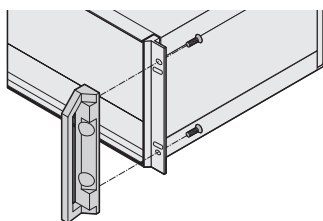
aza43284

- Forms the GND/earthing connections between side panels, base plate, top cover and rear panel
- Protective GND/earthing connections in accordance with:
 - DIN EN 50178/VDE 0160
 - DIN EN 60950/VDE 0805
 - DIN EN 61010-1/VDE 0411 part 1
 - DIN EN 61010-1A2/VDE 0411 part 1/A1
- VDE tested

Order Information

Description	Part no.
GND/earthing kit, Cu wire 1.5 mm ² , PVC sleeve, green/yellow	24571-380

Front handles for 19" mounting bracket



06801501

- The front handles are bolted to the 19" mounting brackets of the C-BOX PRO case (2 additional holes are required)
- Retrofittable
- Static load-carrying capacity 35 kg per pair

Delivery comprises

Item	Qty	Description
1	2	Front handle with assembly kit, Al die-cast, powder coated RAL 7016

Order Information

For case height	Description	A	Part no.
U		mm	
3	C-BOX PRO	129	24571-349
4	C-BOX PRO	173.5	24571-350
6	C-BOX PRO	262.4	24571-351
4-air	C-BOX PRO air	173.5	24571-350
5-air	C-BOX PRO air	129	24571-349
7-air	C-BOX PRO air	173.5	24571-350



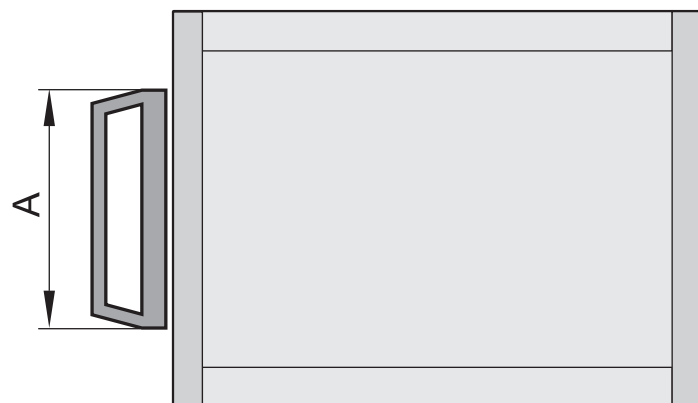
For further information www.c-box-tech.com/oneclick
oneClick search code = Part no.

C-BOX PRO air 4 U, C-BOX PRO 3 U up to 6 U



06801007

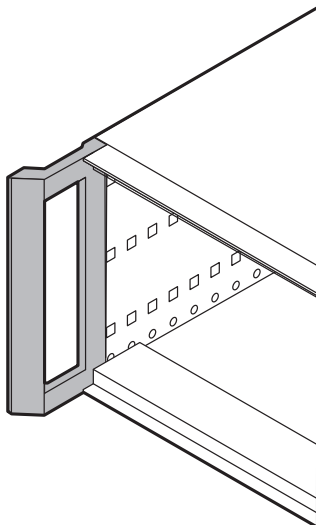
C-BOX PRO air 5 U and 7 U



06801008

Desk-top cases – *ratio***pac***PRO* / -air

Front handles for retrofitting



RPPR6651

- To exchange cover strips or 19" mounting brackets on cases

Delivery comprises (kit)

Item	Qty	Description
1	2	Front handle, Al die-cast, powder coated RAL 7016

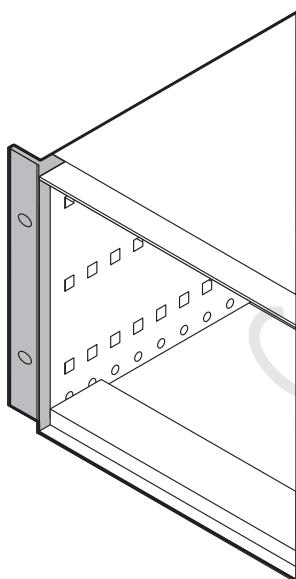
Order Information

Front handle for	Part no.
C-BOX PRO 3 U	24571-301
C-BOX PRO 4 U	24571-302
C-BOX PRO 5 U	24571-993
C-BOX PRO 6 U	24571-303
C-BOX PRO air 3/4 U	24571-304
C-BOX PRO air 4/5 U	24571-305
C-BOX PRO air 6/7 U	24571-306



For further information www.c-box-tech.com/oneclick
oneClick search code = Part no.

19" mounting brackets for retrofitting



RPPR6652

- To exchange cover strips or 19" mounting brackets on cases

Delivery comprises (kit)

Qty	Description
2	19" mounting angle, Al die-cast, powder coated RAL 7016

Order Information

19" mounting angle	Part no.
C-BOX PRO 2 U	24571-994
C-BOX PRO 3 U	24571-295
C-BOX PRO 4 U	24571-296
C-BOX PRO 5 U	24571-992
C-BOX PRO 6 U	24571-297
C-BOX PRO air 4 U	24571-298
C-BOX PRO air 5 U	24571-299
C-BOX PRO air 7 U	24571-300

Note

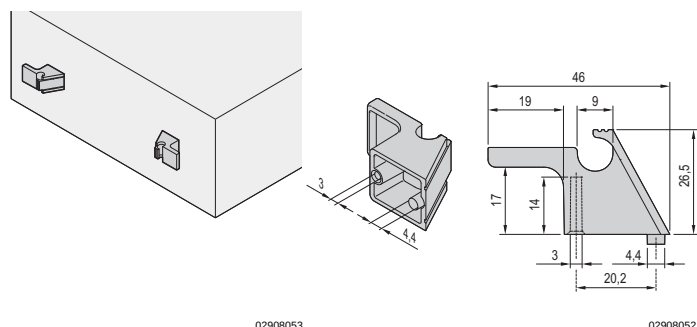
- No slide rails may be used when fitting into cabinets or 19" cases
- Front handles for 19" mounting bracket see page 5.24



For further information www.c-box-tech.com/oneclick
oneClick search code = Part no.

Desk-top cases – *ratio***pac***PRO* / -air

Cable holder



Delivery comprises

Item	Qty	Description
1	2	Cable bracket, ABS, UL V-94 0, RAL 7016, detent for cables between 8 mm and 12 mm
2	1	Drilling template, two drilled holes each per bracket are needed in rear panel
3	1	Assembly kit

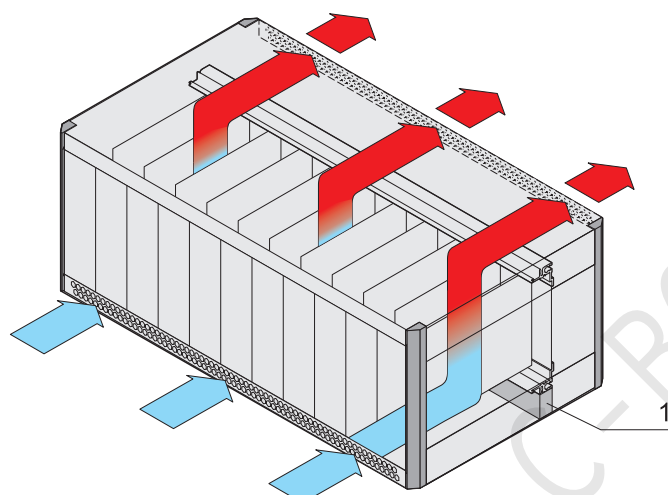
Order Information

Description	Part no.
Cable holder	24575-800



For further information www.c-box-tech.com/oneclick
oneClick search code = Part no.

Air baffles for C-BOX PRO air



- The air baffle (item 1) closes the space (1/2 U) between the rear horizontal rail and base plate

Delivery comprises (in kit form)

Item	Qty	Description
1	1	Compartment seal, PE foam, UL 94 HF 1 + HF 2, self-adhesive, temperature range: -40 °C ... +85 °C

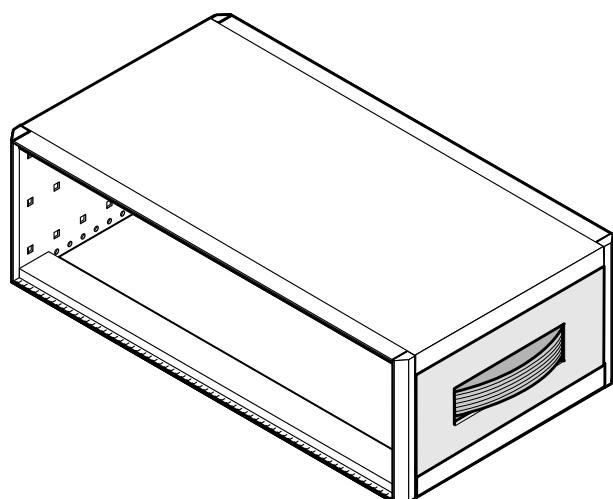
Order Information

For case width	Length	Part no.
HP	mm	
42	218.4	20833-351
63	325.1	20833-352
84	431.8	20833-353

Note

- Fan rear panel available on request
- Radial fan unit see page 5.17

Strap handles



- Retrofittable without mechanical modifications to the case
- Static load-carrying capacity 20 kg per pair

Delivery comprises (kit)

Item	Qty	Description
1	1	Handle, steel spring, plastic-sheathed (flexible plastic), RAL 7016
2	1	Side plate, Al, visible surfaces powder-coated, RAL 9006
3	2	Adaptor, Al die-cast
4	1	Assembly kit

Order Information

For case depth	For case height 3 U, 4 U air	For case height 4 HE, 5 Uair
mm	Part no.	Part no.
315	24571-308	24571-314
375	24571-309	24571-315
435	24571-310	24571-316

Desk-top cases – *ratio***pac***PRO* / -air

Tip-up carrying handles



06803006

- Retrofittable without mechanical modifications to the case
- Adjustable in 30° increments
- Static load-carrying capacity 30 kg

Delivery comprises (kit)

Item	Qty	Description
1	1	Carrying bar, Al extrusion, powder coated, RAL 9006
2	1	Handle shell, ABS, UL 94 V-0, RAL 7016
3	2	Tip-up protection, ABS, UL 94 V-0, RAL 7016
4	2	Notch device, Al die-cast
5	2	Cover cap, ABS, UL 94 V-0, RAL 7016

Order Information

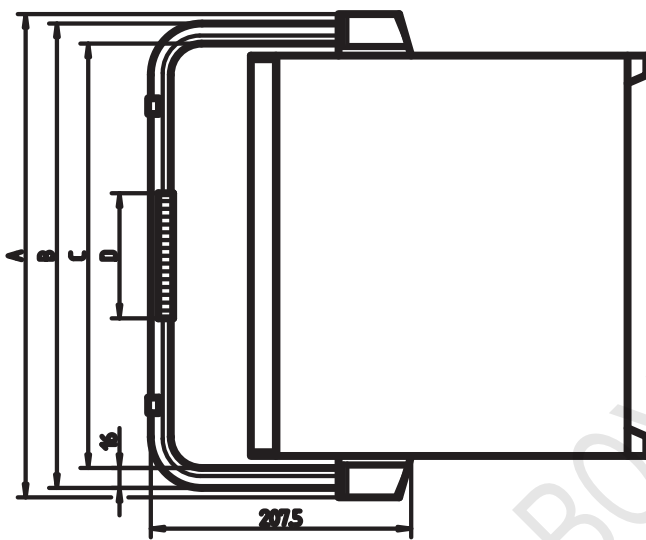
For case height	For case width	For case depth	Tip-up carrying handle	Assembly kit
U	HP	mm	Part no.	Part no.
3, 4-air	42	255	24571-320	24571-352
3, 4-air	42	315	24571-320	24571-353
3, 4-air	42	375	24571-320	24571-354
3, 4-air	42	435	24571-320	24571-355
3, 4-air	42	495	24571-320	24571-356
3, 4-air	63	255	24571-321	24571-352
3, 4-air	63	315	24571-321	24571-353
3, 4-air	63	375	24571-321	24571-354
3, 4-air	63	435	24571-321	24571-355
3, 4-air	63	495	24571-321	24571-356
3, 4-air	84	255	24571-322	24571-352
3, 4-air	84	315	24571-322	24571-353
3, 4-air	84	375	24571-322	24571-354
3, 4-air	84	435	24571-322	24571-355
3, 4-air	84	495	24571-322	24571-356
4, 5-air	42	255	24571-320	24571-359
4, 5-air	42	315	24571-320	24571-360
4, 5-air	42	375	24571-320	24571-361
4, 5-air	42	435	24571-320	24571-362
4, 5-air	42	495	24571-320	24571-363
4, 5-air	63	255	24571-321	24571-359
4, 5-air	63	315	24571-321	24571-360
4, 5-air	63	375	24571-321	24571-361
4, 5-air	63	435	24571-321	24571-362
4, 5-air	63	495	24571-321	24571-363
4, 5-air	84	255	24571-322	24571-359
4, 5-air	84	315	24571-322	24571-360
4, 5-air	84	375	24571-322	24571-361
4, 5-air	84	435	24571-322	24571-362
4, 5-air	84	495	24571-322	24571-363

Note

- Cannot be used in conjunction with front handles
- Assembly kit is required for tip-up carrying handle, please order separately

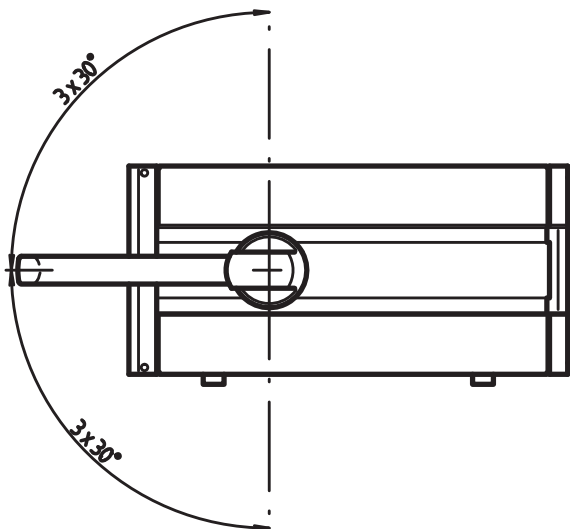


For further information www.c-box-tech.com/oneclick
oneClick search code = Part no.



RPA43897

For case height	For case width	A	B	C	D
U	HP	mm	mm	mm	mm
3, 4, 4-air, 5-air	42	283,4	279,4	247,4	115
3, 4, 4-air, 5-air	63	390,1	386,1	354,1	195
3, 4, 4-air, 5-air	84	496,8	492,8	460,8	195

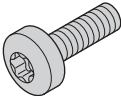
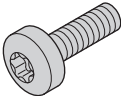


rpa43898

Desk-top cases – *ratio***pac***PRO* / -air

Torx panhead screws

Order Information

	Description	Application	Material	Dimension	Qty/PU	Part no.
	Countersunk screw with Torx	For horizontal rail to side panel, with GND/earthing function	St, zinc-plated	M4 x 14	100	24571-371
	Countersunk screw with Torx	For horizontal rail to side panel, if guide rail is bolted onto slot 1	St, zinc-plated	M4 x 10	100	24571-372

AZA45923

Nut

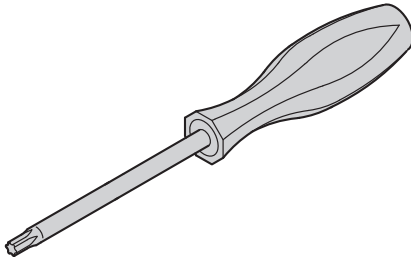
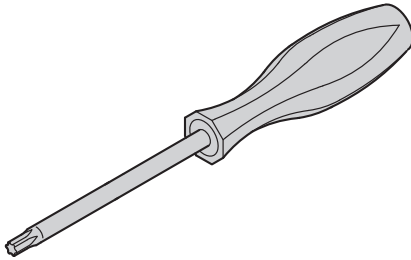
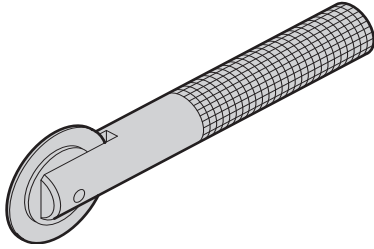
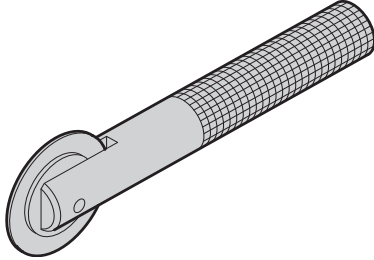
Order Information

	Description	Application	Material	Dimension	Qty/PU	Part no.
	Square nut	For fixing: parts to side panels, support profiles, mounting plates	St, zinc-plated	M4	100	24560-140

AZA45921

Assembly tools

Order Information

	Description	Application	Dimension	Qty/PU	Part no.
	Torx screwdriver		T8	1	64560-026
			T20	1	64560-027
	Assembly tool for horizontal rails	Exclusively to fix stainless steel EMC gaskets in horizontal rails	–	1	24560-271
	Assembly tool for front panels	For mounting stainless steel EMC contact strips on front panels with lateral slot	–	1	24560-270

AZA45925

aza45938

aza45937

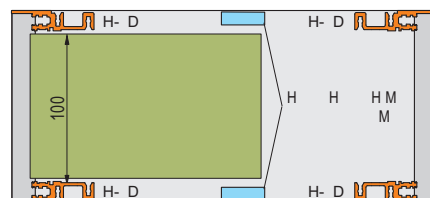
Desk-top cases – ***ratio*pac**PRO**** / -air

Mounting position C-BOX PRO
horizontal rails/ce

rear

3 U

rear



01802057

Technical drawing of a rectangular plate. The plate is green and has a height of 100. The drawing includes labels for dimensions and materials: H-D, H, H M, M, and D. The plate is shown with a top view and a side view. The top view shows the plate with a height of 100 and a width of H-D. The side view shows the plate with a height of H and a width of H M. The plate is labeled with H-D, H, H M, M, and D.

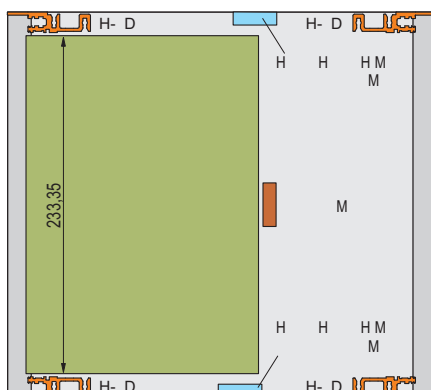
$$5U(3U + 2U)$$

Technical drawing of a rectangular panel with dimensions and connection points. The panel is green and has a height of 100. It is connected to a wall by four orange brackets, two on the left and two on the right. The top and bottom connections are labeled H-D. The left and right connections are labeled H-KD / H-LD / L-KD. The panel is also labeled with H-ST / H-VT / H-MZ and L-ST / L-VT / L-MZ.

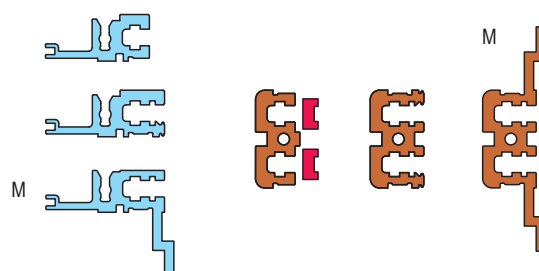
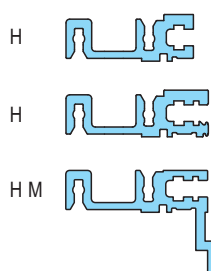
Technical drawing of a rectangular plate. The left side is labeled with a vertical dimension of 100. The top and bottom edges are labeled with 'H- D'. The right side is labeled with 'H' and 'HM M'. The bottom-left corner is labeled with '>H D H D D D'. The bottom-right corner is labeled with 'H- D'. The plate is shown with a green fill and a blue border.

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6 U (2 x 3 U)



01802060



01808050

Desk-top cases – *ratio***pac***PRO* / -air

Mounting position C-BOX PRO air
horizontal rails/ce

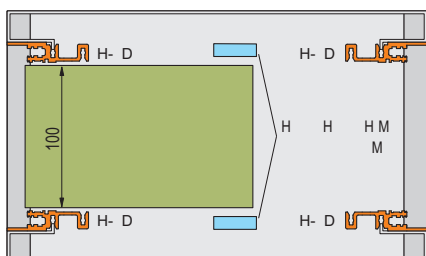
front

rear

front

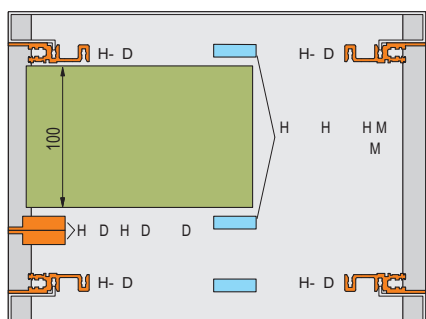
rear

4-air U (1/2 U + 3 U + 1/2 U)



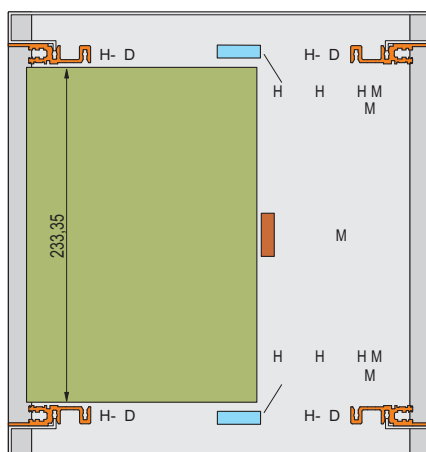
01802061

5-air U (1/2 U + 3 U + 1U +1/2 U)



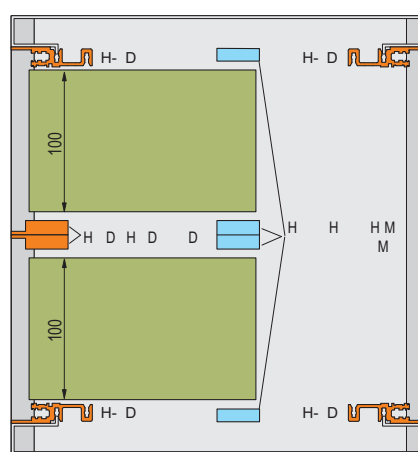
01802062

7-air U (1/2 U + 6 U + 1/2 U)

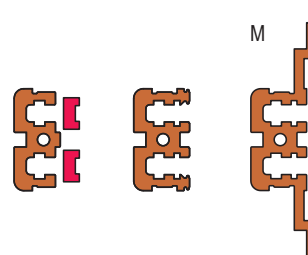
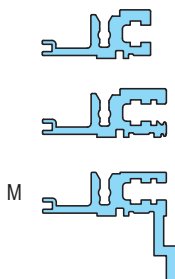
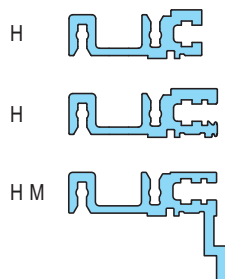
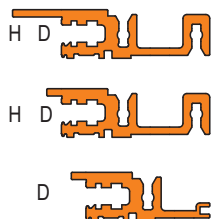


01802063

7-air U (1/2 U + 3 U + 3U 1/2 U)



01802064



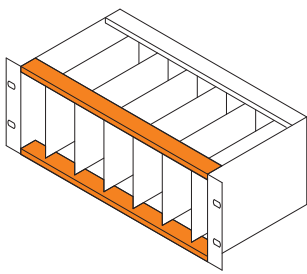
Horizontal rails can be bolted on in 15 mm depth grid

01808050

Desk-top cases – *ratio***pac***PRO* / -air

Front horizontal rails

Order Information

 bza44980		"heavy" Type H-KD short lip  06197008 Al extrusion, anodised finish, contact surface conducting, with printed HP markings 1 piece (SPQ 10)¹⁾	With long lip for insertion/extraction of CompactPCI and VME64x boards "heavy" Type H-LD long lip  06197009 Al extrusion, anodised finish, contact surface conducting, with printed HP markings 1 piece (SPQ 10)¹⁾
Usable length HP	Length mm		
28	147.32	34560-228	34560-328
42	218.44	34560-242	34560-342
63	325.12	34560-263	34560-363
84	431.80	34560-284	34560-384
M4 × 10, St, zinc-plated, necessary if guide rail is screwed to slot 1, PU 100 pieces		24571-372	24571-372
Threaded inserts see page		5.35	5.35

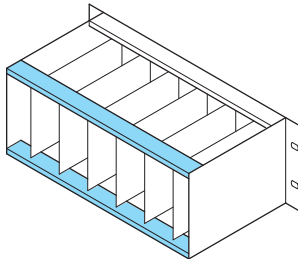
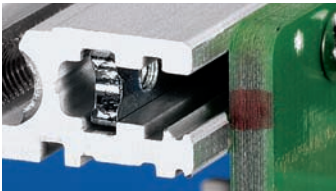
1) SPQ (standard pack quantity): Order number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple thereof

"light": loading capacity up to approx. 7.5 kg; "heavy": loading capacity > 7.5 kg

Desk-top cases – *ratio***pac***PRO* / -air

Rear horizontal rails

Order Information

 06105074		For indirect backplane fixing with insulation strip  04400001 "heavy" Type H-ST standard  06197011 Al extrusion, anodised finish, contact surface conducting, with printed HP markings 1 piece (SPQ 10)¹⁾	For direct backplane fixing  04400002 "heavy" Type H-VT long lip  06197013 Al extrusion, anodised finish, contact surface conducting, with printed HP markings 1 piece (SPQ 10)¹⁾	For direct fixing of connectors to EN 60603-2 (DIN 41612)  04400003 "heavy" Type H-MZ with Z-rail  06197015 Al extrusion, anodised finish, contact surface conducting, with printed HP markings 1 piece (SPQ 10)¹⁾
Usable length HP	Length mm			
28	147.32	34560-528	34560-728	34560-928
42	218.44	34560-542	34560-742	34560-942
63	325.12	34560-563	34560-763	34560-963
84	431.80	34560-584	34560-784	34560-984
Torx panhead screw, 4 x 10		24571-372	24571-372	24571-372
Perforated rail for connector mounting with insulation strip see page		5.35	—	—
Z-rail for connector mounting without insulation strip see page		5.35	—	—
Insulation strips see page		5.35	—	—
Threaded inserts see page		5.35	5.35	5.35

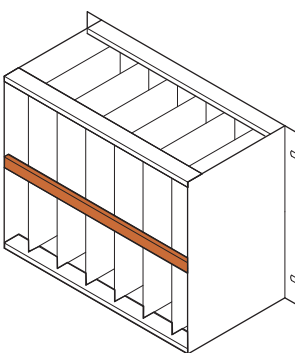
1) SPQ (standard pack quantity): Order number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple thereof

"light": loading capacity up to approx. 7.5 kg; "heavy": loading capacity > 7.5 kg

Desk-top cases – *ratio***pac***PRO* / -air

Horizontal rails rear, centre

Order Information

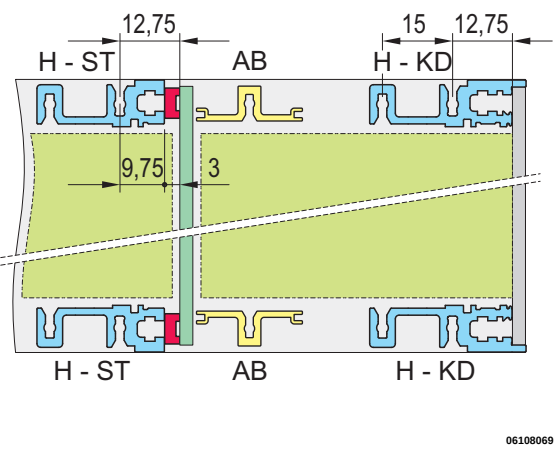
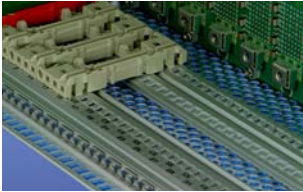


1) SPQ (standard pack quantity): Order number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple thereof

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

Order Information

		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 80 mm rear I/O boards; without marking
Usable length	Length	1 piece (SPQ 10)¹⁾
HP	mm	
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
Screw, M4 x 14, PU 100 pieces, for fastening horizontal rail to side panel		24560-130

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

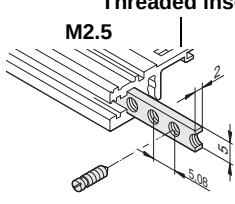
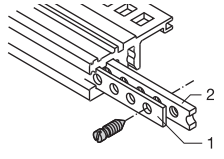
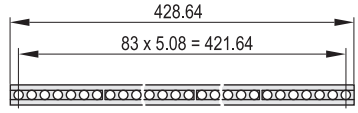
"light": loading capacity up to approx. 7.5 kg; "heavy": loading capacity > 7.5 kg

Note

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

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Threaded inserts, perforated strips, insulation strips

Usable length HP	Length mm	Threaded insert		Perforated strip (item 1)		Insulation strip	
		1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾	Length mm	1 piece (SPQ 10) ¹⁾	Length mm	PU 10 pieces ²⁾
		 Threaded insert M2.5 M3 06103056 Required for fixing the front panel to the horizontal rail; St, zinc-plated; use collar screw 12.3 mm, see page 6.64		 Perforated strip (item 1) BZA45853 For centring shielded plug-in units, Al, 1 mm, please order fixing grub screw separately		 Insulation strip BZ6749 For insulated mounting of backplane; PBT UL 94 V-0, grey	
28	146.82	34561-328	—	147.12	30845-197	144.20	24560-828
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

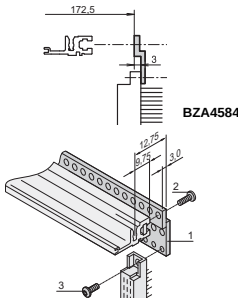
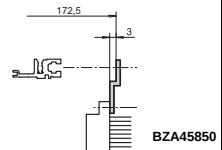
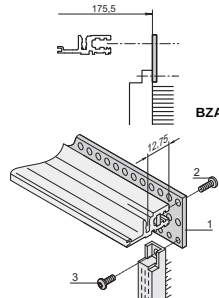
Accessories

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

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

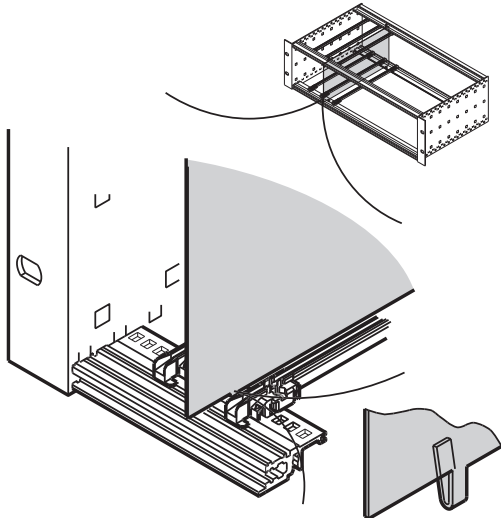
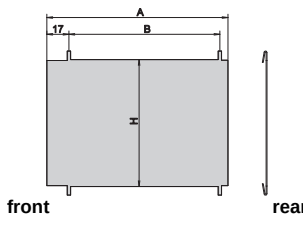
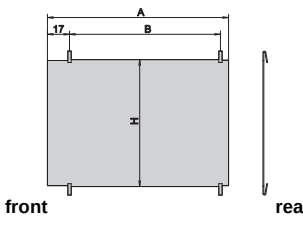
Z-rails, perforated rails

		Z-rail for connectors DIN EN 60603-2, DIN 41612 item 1		31-pin, DIN 41617 BZA45849		Perforated rail EN 606032, DIN 41612 item 1 BZA45848	
							
		For connector mounting with ST horizontal rails, please order threaded insert and screw separately		For connector mounting with ST horizontal rails, please order threaded insert and screw separately		For connector mounting with VT horizontal rails, please order threaded insert and screw separately	
Usable length	Length	1 piece		1 piece		PU 4 pieces	
HP	mm						
28	142.24	30822-033		—		20822-049	
42	213.36	30822-047		—		20822-050	
60	304.80	30822-065		30819-783		20822-047	
84	426.70	30822-089		30819-808		20822-048	
Torx panhead screw, to fix connector to perforated rail,, M2.5 × 7, PU 100 piecesItem 3		24560-147		24560-147		24560-147	
Torx panhead screw, to fix perforated rail to horizontal rail, M2.5 × 10, PU 100 pieces Item 2		24560-148		24560-148		24560-148	

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Divider plates

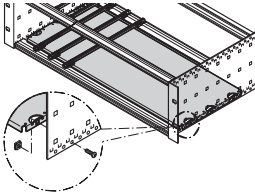
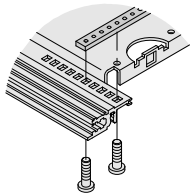
Order Information

					Divider plates	
					Mounting position for stainless steel EMC gasket	Mounting position for textile EMC gasket
 bpa45912					 bpa45911	 06105078
					Stainless steel, 1 mm, is mounted by clipping onto horizontal rail, space requirement on component side 2 mm; mounting direction varies with shielding design (EMC stainless steel or textile gasket); retrofitting the divider plate in an already-assembled subrack/case will first require dismantling of the horizontal rails; where front panels are unshielded, both mounting directions are possible	
Height U	Depth mm	A mm	B mm	H mm	1 piece	
3	160	158.3	135.0	113.5	34562-761	
3	220	218.3	195.0	113.5	34562-762	
6	160	158.3	135.0	246.9	34562-763	
6	220	218.3	195.0	246.9	34562-764	

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Mounting plates

Order Information

			Mounting plate  bpa45875 Al, 1.5 mm; for mounting over partial width, please order assembly strips separately	Assembly strip for partial widths  bpa46557 St, 2 mm, zinc-plated; is bolted from front to rear onto the horizontal rails; to fix mounting plates
HP	Width mm	Board lengths mm	1 piece	1 piece
28	146.88	160	34562-745	30840-021
28	146.88	220	34562-749	30840-033
28	146.88	280	34562-753	30840-045
28	146.88	340	34562-757	30840-057
42	217.99	160	34562-746	30840-021
42	217.99	220	34562-750	30840-033
42	217.99	280	34562-754	30840-045
42	217.99	340	34562-758	30840-057
63	324.67	160	34562-747	30840-021
63	324.67	220	34562-751	30840-033
63	324.67	280	34562-755	30840-045
63	324.67	340	34562-759	30840-057
84	431.35	160	34562-748	30840-021
84	431.35	220	34562-752	30840-033
84	431.35	280	34562-756	30840-045
84	431.35	340	34562-760	30840-057
Assembly kit for mounting plate PU 1 kit (Torx countersunk screw M4 x 5, St, zinc-plated, 12 pieces; screw M4 x 6, St, zinc-plated, 10 pieces; M4 square nut, St, zinc-plated, 10 pieces)			24560-184	—
Assembly kit for assembly strips of mounting plate Torx screw M2.5 x 5, St, zinc-plated, PU 100 pieces			—	24560-146

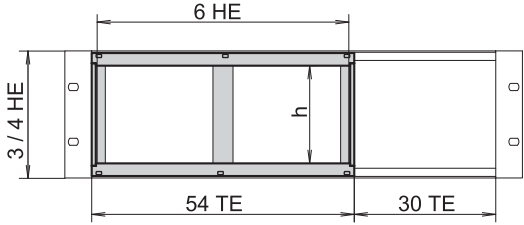
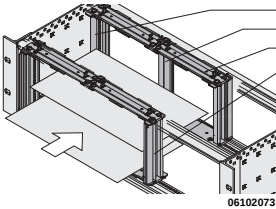
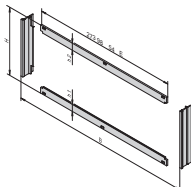
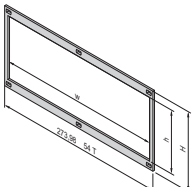
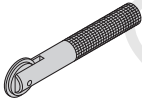
Note

- Please order fixing material for assembly of mounting plate separately
- A guide rail can be mounted on the first and last slot position
- 4.4" and "reinforced" guide rails cannot be used

Desk-top cases – *ratio***pac***PRO* / -air

Horizontal board installation

Order Information

			Horizontal board installation		
			Board cage  Struts die-cast zinc; horizontal rails front and rear; threaded insert, St, zinc-plated; fixing material kit; for horizontal mounting of double-height euroboards in 3 or 4 U high subracks/cases; 54 TE space required; please order front frame for EMC shielding separately	Front frame for EMC shielding  2 horizontal covers, Al, 2.5 mm, front anodised, rear iridescent green chromated; 2 vertical trims, Al extrusion, clear passivated; stainless steel EMC gasket; front frame forms the contact between subrack and the sub-assemblies	Front frame, unshielded  Al, 2.5 mm, clear anodised; front frame with cut-out, clear internal width w = 266.35 mm
Height U	Usable height h HP	Other dimensions and options Horizontal rail, front Horizontal rail, rear	PU 1 kit	PU 1 kit	1 piece
3	20		24564-117	24564-109	34564-108
3	20		24564-118	24564-109	34564-109
4	28		24564-217	24564-209	34564-208
Assembly tool, for mounting the EMC gasket (stainless steel) 			–	24560-270	–

* For direct backplane mounting

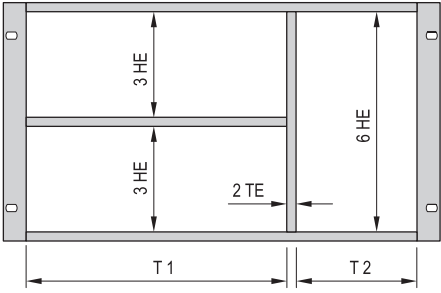
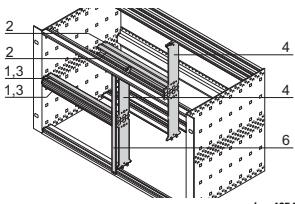
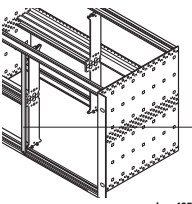
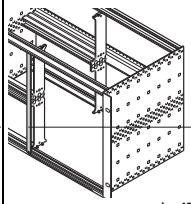
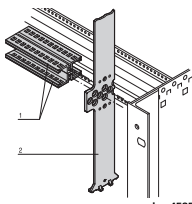
Note

- Please order front frame separately

Desk-top cases – *ratio***pac***PRO* / -air

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

Order Information

	Combined mounting	Alternative front panels for combined mounting		Splitting extrusion
	Horizontal and vertical subdivision (incl. front panel for stainless steel EMC gasket)	Unshielded front panel, 6 U, 2 HP item 6	Front panel for textile EMC gasket, 6 U, 2 HP item 6	For combined mounting Item 2
	 Item 1: 2 front horizontal rails (H-KD), Al extrusion, anodised; item 2: 2 rear horizontal rails (AB), Al extrusion, anodised; item 3: threaded insert, St, zinc-plated; item 4: Zn die-cast support member; item 6: front panel 2 HP, 6 U, shielded; with EMC stainless steel gasket (84:0 without items 4, 6)	 Al, 2.5 mm, front anodised, rear iridescent green chromated	 Al, 2.5 mm, U-profile with notch, 6 U, 2 HP	 6 U, die-cast zinc; splitting extrusion is inserted in the grid holes of the horizontal rail; the splitting extrusion can be bolted
Width pitch T1:T2	PU 1 kit	1 (SPQ 5)	1 piece (SPQ 5)¹⁾	1 piece
HP				
20:62	24562-420			
40:42	24562-440			
42:40	24562-442	30847-472	30849-140	64560-010
63:19	24562-463			
84:0	24562-484			
Countersunk screw with Torx M4 × 14, zinc-plated, PU 100 pieces fixing splitting extrusion/horizontal rail	—	—	—	24560-145
Panhead screw M2.5 × 10, St, zinc-plated, PU 100 pieces fixing horizontal rail/splitting extrusion	—	—	—	24560-179
Pozidrive/slotted collar screw M2.5 × 12.3, St, nickel-plated, PU 100 pieces	—	21101-101	21101-101	—
Pozidrive/slotted collar screw M2.5, black, zinc-plated, PU 100 pieces	—	21101-102	21101-102	—
Washer, 2.7 × 5 × 1, plastic PA 6, PU 100 pieces	—	21101-121	21101-121	—
Textile gasket, core: foam, sleeve: textile cladding with CuNi coating, UL 94 V-0, PU 10 pieces	—	—	21101-855	—

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

- Subdivision of the 6 U assembly area into:
 - 2 x 3 U
 - 1 x 6 U
- Designed to accept Euroboards (100 mm high) and double Euroboards (233.35 mm high)

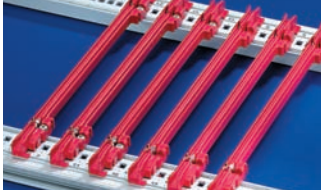
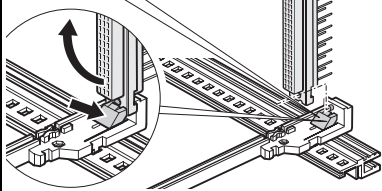
Note

- Please order EMC gasketing kit for horizontal rails separately, see page 5.19
- Please order perforated strips for horizontal rails separately, see page 5.35
- Please order rear centre horizontal rail separately, see page 5.33

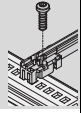
Desk-top cases – *ratio***pac***PRO* / -air

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

Order Information

Assembly			For plug-in units and frame type plug-in units	
			Standard	With DIN connector fixing as standard
- can be clipped into Al extruded horizontal rails - can be clipped into 1.5 mm thick plates			 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	 PBT, UL 94 V-0, red, connector is clipped directly onto the guide rails; for euroboards 100 x 160 mm or 100 x 220 mm only
Storage temperature				
from -40 °C ... 130 °C				
Board lengths mm	Groove width mm	Colour mm	PU 10 pieces ²⁾	1 pair (SPQ 10) ¹⁾
70	2	red	—	—
70	2	grey	—	—
160	2	red	24560-351	64560-074
220	2	red	24560-353	64560-075
280	2	red	24560-379	—
340	2	red	24560-380	—
160	2.5	red	—	—
220	2.5	red	—	—

Accessories

Retention screw, PU 100 pieces		24560-141
ESD clip, PU 50 pieces		24560-255

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

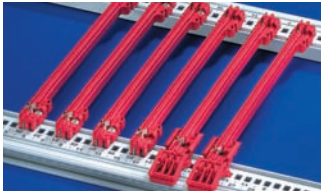
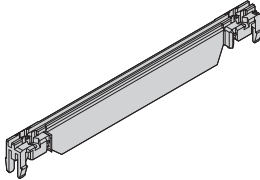
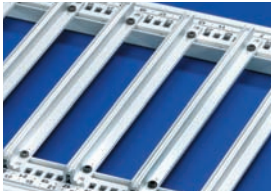
2) Part no. includes one packing unit (PU); delivery is exclusively made in PU

Description of accessories see from page 6.41

Desk-top cases – *ratio***pac***PRO* / -air

Guide rails type "accessories", one-piece,
groove width 2 mm and 2.5 mm

Order Information

Assembly - can be clipped into horizontal rails in Al extrusion - can be clipped into 1.5 mm thick plate Storage temperature from -40 °C ... +130 °C			"Accessories"  Up to 220 mm length, PBT, UL 94 V-0; > 280 mm length, multi-piece, end piece PBT, UL 94V-0, middle section Al extrusion	Guide rail type "Accessories" strengthened  PBT UL 94V-0, red; support beam of guide rails adds to strengthening	For heavy modules, Al extrusion, silver, robust version  Al extrusion; is screwed to horizontal rail "heavy" with retention screws
Board lengths mm	Groove width mm	Colour mm	PU 10 pieces ²⁾	1 piece (SPQ 50) ¹⁾	1 piece (SPQ 10) ¹⁾
100	2	red	—	—	—
160	2	red	24560-373	64560-076	—
160	2	grey	—	—	34562-881
220	2	red	24560-374	64560-078	—
220	2	grey	—	—	34562-882
280	2	red/silver	24560-375	64560-080	34562-883
340	2	red/silver	24560-376	—	34562-884
400	2	red/silver	—	—	34562-885
160	2.5	silver	—	—	34564-881
220	2.5	silver	—	—	34564-882
280	2.5	silver	—	—	34564-883
340	2.5	silver	—	—	34564-884
400	2.5	silver	—	—	34564-885

Accessories

Retention screw, PU 100 pieces	24560-141	24560-141	24560-157
ESD clip, PU 50 pieces	24560-255	—	—
Board locking, red, PU 10 pieces	24560-377	—	—
Board handle, red, PU 10 pieces	24560-378	—	—
Identification strips for board handle, red, PU 1 sheet = 438 pieces	60817-228	—	—
Coding see page	6.41	—	—

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

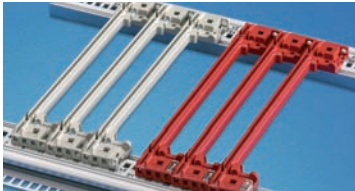
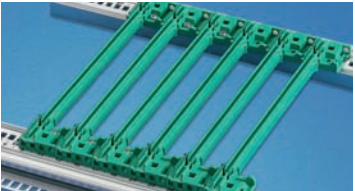
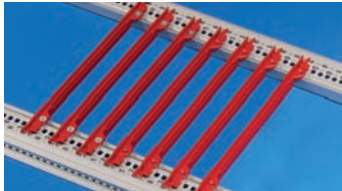
2) Part no. includes one packing unit (PU); delivery is exclusively made in PU

Description of accessories see from page 6.41

Desk-top cases – *ratio*pac**PRO** / -air

Guide rails for CompactPCI, VME64x with coding,
4.4" PCBs, groove width 2 mm and 2.5 mm

Order Information

Assembly - can be clipped into Al extruded horizontal rails - can be clipped into 1.5 mm thick plates Storage temperature from -40 °C ... 130 °C			For CompactPCI, VME64x with coding In accordance with IEEE 1101.10 and IEC 60297-3-103  One-piece for groove width 2 mm, PBT, UL 94 V-0; multi-piece at groove width 2,5 mm, end-piece PBT, UL 94 V-0, center piece Al profile	Offset 0.1" for power supply units in accordance with IEEE 1101.10 and IEC 60297-3-103  PBT, UL 94 V-0, for installation of power supplies in CompactPCI systems or plug-in units with SMD placement	For 4.4" PCBs  One-piece, PBT, UL 94 V-0; for 4.4" PCBs or drive units
Board lengths mm	Groove width mm	Colour mm	PU 10 pieces²⁾	PU 10 pieces²⁾	PU 10 pieces
70	2	red	24560-355	—	—
70	2	grey	24560-360	—	—
160	2	red	24560-356	—	24560-361
160	2	grey	24560-358	—	—
160	2	green	—	24560-359	—
220	2	red	—	—	24560-362
220	2	grey	—	—	—
220	2	green	—	—	—
160	2.5	red	—	—	—
220	2.5	red	24561-330	—	—
220	2.5	grey	24561-340	—	—
280	2.5	red	24561-331	—	—
280	2.5	grey	24561-341	—	—
340	2.5	red	24561-332	—	—
340	2.5	grey	24561-342	—	—

Accessories

ESD clip, PU 50 pieces	24560-255	—	—
ESD clips, for alignment pin, PU 50 pieces	24560-256	24560-256	—
Retention screw, PU 100 pieces	24560-141	24560-141	24560-158
Coding peg, PU 100 pieces	20817-501	20817-501	—

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

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

Description of accessories see from page 6.41

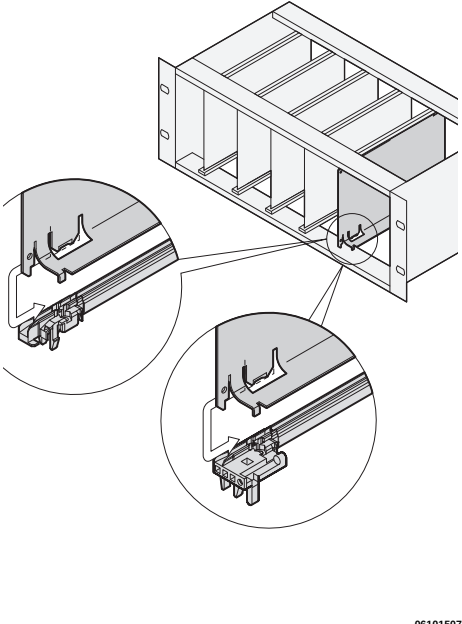
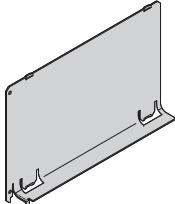
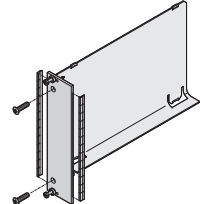
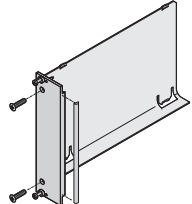
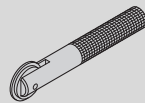
Note

- Reinforcement for plastic profiles (PVC) > 280 mm depth available on request

Desk-top cases – *ratio***pac***PRO* / -air

Air baffle for slots

Order Information

			Air baffle without front panel	Air baffle with front panel	
				front panel with lateral groove for stainless steel EMC gasket	U front panel for textile EMC gasket
			 Al, 1 mm, incl. assembly kit; prevents an air short circuit in unoccupied slot positions; is pushed into the groove of the guide rails	 Air baffle, Al, 1 mm; front panel, Al, 2.5 mm, front anodised, rear conductive; EMC gasket (stainless steel); fixing material kit prevents an air short-circuit where slots are unoccupied; is pushed into the groove of the guide rails	 Air deflector, Al, 1 mm, front panel, Al extrusion, 2.5 mm, front anodised, rear conductive; EMC gasket (textile); fixing material kit prevents an air short-circuit where slots are unoccupied; is pushed into the groove of the guide rails
Depth mm	Width HP	Height U	1 piece	1 piece	1 piece
160	4	3	34562-823	20848-712	20848-728
160	4	6	34562-826	20848-720	20848-736
160	8	3	34562-833	20848-714	20848-730
160	8	6	34562-836	20848-722	20848-738
160	12	3	34562-843	20848-716	20848-732
160	12	6	34562-846	20848-724	20848-740
220	4	3	34562-824	20848-713	20848-729
220	4	6	34562-827	20848-721	20848-736
220	8	3	34562-834	20848-715	20848-731
220	8	6	34562-837	20848-723	20848-739
220	12	3	34562-844	20848-717	20848-733
220	12	6	34562-847	20848-725	20848-741
Assembly tool for EMC gasket (stainless steel), 1 piece 			—	24560-270	—

Note

- Air baffle for 280 mm deep and for 80 mm rear I/O boards available on request