

**CONNECT AND PROTECT**

**CompactPCI**

# Systems – CompactPCI subrack systems

## OVERVIEW

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### WHAT WE UNDERSTAND TO BE A SYSTEM

We at SCHROFF regard a system as being a combination of mechanical components like a subrack or case with electronic components such as a backplane and power supply unit, a cooling unit where appropriate and a system management module.

### A STRONG STANDARD RANGE

Our extensive and highly-developed standard range offers you mechanical, electronic and thermal components in an almost unlimited variety of dimensions and specifications. Simply select a complete ready system or configure your system from our standard components, online or using the catalogue, to your exact requirements.

### FLEXIBILITY FOR MODIFICATIONS

Often only small adjustments are needed to create the required solution from a standard product. And we have set ourselves up to offer just that. We can make modifications in accordance with your individual specifications - with our usual speed and reliability.

### COMPETENT WITH NEW DEVELOPMENTS

If your requirements cannot be met with standard products or modified standard solutions, our qualified and experienced team will create a customised solution for your system. We have all the necessary development and manufacturing competencies gathered under one roof.

### STANDARDS/APPROVALS

- Inner and outer dimensions in accordance with:  
IEC 60297-3-101 / IEEE 1101.1  
IEC 60297-3-102 / IEEE 1101.10/11  
IEC 60297-3-103
- Ingress protection IP 20 in accordance with IEC 60529
- EMC testing in accordance with IEC 61587-3
- In accordance with PICMG 2.0 rev. 3.0,  
PICMG 2.16 and PXI 2.0



### AREAS OF APPLICATION

- Measurement, control and instrumentation technology
- Automation technology, machine monitoring
- Aerospace
- Defence systems
- Medical technology
- Telecommunications

# Systems – CompactPCI subrack systems

## OVERVIEW

### COMPACTPCI SUBRACK AND CASE SYSTEMS

- Large selection of standard CompactPCI, PSB and H.110 systems
- Standard systems to the new CompactPCI PlusIO and CompactPCI Serial standards
- Individual configuration within 9 working days
- Custom solutions on request



12310002

#### COMPACTPCI SERIAL

CompactPCI Serial (PICMG CPCI-S.0) is a systematic further development of CompactPCI. Instead of the former PCI bus, this defines the current and future serial protocols for data transmission. In addition to PCIe, S-ATA, USB 2.0 & 3.0 and Ethernet are also available on every slot.

CompactPCI Serial  
4 U, 9 slot . . . . . 8.70



12309004

#### COMPACTPCI PLUSIO

CompactPCI PlusIO (PICMG 2.30) defines a unified pinout for the fast serial PCIe, S-ATA, USB and Ethernet protocols on the 32-bit CompactPCI system slot. Hybrid CompactPCI/CompactPCI Serial systems can be built. CompactPCI PlusIO thus offers simple migration to the new technology.

CompactPCI PlusIO  
4 U, 8 slot . . . . . 8.72



12302002

#### COMPACTPCI

CompactPCI (PICMG 2.0) was specified in 1995 and is based on the widely-used PCI bus. This bus, with the CompactPCI specification, is packaged in a robust modular 19" enclosure and is thus suitable for industrial use.

CompactPCI  
subrack systems  
with ATX power  
supply, 1, 2, 3 U . . . 8.75  
with 19" power  
supply, 1, 2, 3  
and 4 U . . . . . 8.76  
3 U . . . . . 8.77  
4 U . . . . . 8.78  
6 U . . . . . 8.80  
6 + 1 U . . . . . 8.81  
CompactPCI  
case systems  
4 U . . . . . 8.83  
7 U . . . . . 8.84



12306003

#### PSB

PSB (Packet Switching Backplane, PICMG 2.16) and H.110 (Computer Telephony Bus, PICMG 2.5) are CompactPCI sub-specifications that define additional buses, specifically for telecommunications applications, in 6 U CompactPCI.

#### SUBRACKS

CompactPCI subracks for building an individual CompactPCI system can be found in the subracks section, page 6.16

PSB plug-in units  
4 U . . . . . 8.85  
10 U . . . . . 8.86

#### SERVICEPLUS

- e.g. individual configuration and assembly
- e.g. modifications (integration)
- e.g. downloads (CAD drawings, user manuals, test reports)
- e.g. custom solutions

PXI case system  
4 U, 8 slot, 44 HP 8.87  
4 U, 21 slot 8.88  
Express, 4 U, 8 Slot, 44 HP 8.89

Subracks  
Kit, shielded,  
with/without  
rear I/O . . . . . 6.16

# Systems – CompactPCI Serial

## COMPACTPCI SERIAL, 4 U, WITH/WITHOUT REAR I/O



Front view (24579-416)

12315001



Front view with rear I/O (24579-421)

12315002



Rear view with rear I/O (24579-421)

12315003



Fan module

12315004

- 4 U CompactPCI Serial system with vertical 3 U board cage
- Airflow from bottom to top with fan modules that can be changed on the front
- Retrofittable air filter
- Supports PCIe up to Gen3, USB 2.0 and 3.0, S-ATA up to Rev 3.0, and Ethernet up to 10 GBase-T
- Preference types can be ordered directly from stock, other configurations on request
- AC wide range input, 1 pluggable 300 W PSU (without rear I/O), 2 pluggable 300 W PSUs (with rear I/O)
- 9 slot backplane, system slot left, Ethernet as star

### DELIVERY INCLUDES (completely assembled, wired and tested)

Item	Qty	Description
1	1	Shielded 19" chassis, Al; perforated top cover and base plate; front handles
2	9	Slot at front; IEEE guide rails incl. ESD clips (ESD clips fitted at bottom front), for vertical board mounting (3 U, 160 mm deep)
3	9	Version with rear I/O: Slot at rear; IEEE guide rails incl. ESD clips (ESD clips fitted at bottom), for vertical mounting of rear I/O boards (3 U, 80 mm deep)
4	1	CompactPCI Serial backplane for 3 U boards; 9 slot, system slot left (without rear I/O part no. 23007-629, with rear I/O part no. 23007-669)
5	1 / 2	Power backplane, 3 U, 8 HP with 1 x Pwrblade connector without rear I/O, 2 power backplanes for version with rear I/O (part no. 23098-397)
6	1 / 2	19" PSU, 300 W, 3 U, 8 HP (part no. 11098-538); 2 PSUs installed for version with rear I/O
7	1	AC input module, 3 U, 8 HP; A/C line filter, max. current 10 A
8	1	Hot-swap fan tray, pull-out, 1 U, 3 x 12 V <sub>DC</sub> fans
9	1	Cable harness to connect all system components

### ORDER INFORMATION

Height U	Width mm	Width HP	Depth mm	Number of slots	Version	Part no.
4	177	84	275	9	Without rear I/O	<b>24579-416</b>
4	177	84	275	9	With rear I/O	<b>24579-421</b>

### Accessories

Air filter retainer for CompactPCI Serial systems	1 piece	24579-632
Air filter mat for CompactPCI, CompactPCI Serial, and VME systems	1 piece	<b>60713-471</b>

### Note

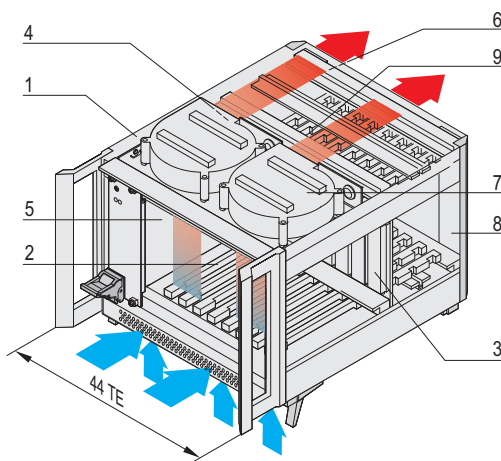
- System in accordance with IEC 60297-3-101, -102, -103; IEEE 1101.1, 1101.10/11; backplane in accordance with PICMG CPCI-S.0
- Modified systems available on request

# Systems – CompactPCI Serial subrack sys-

**4 U, 9 SLOT, 44 HP, WITHOUT REAR I/O, WITH 19" PSU**



Frontansicht

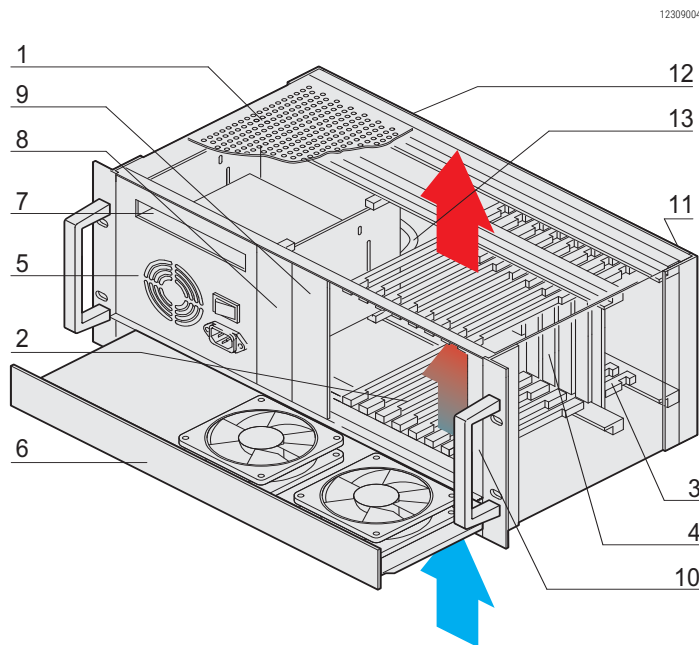


Physical Slot Number	1	2	3	4	5	6	7	8	9
Slot	0111	0110	0101	0100	0011	0010	0001	0000	
Interf.	SVS	Port. 1	Port. 2	Port. 3	Port. 4	Port. 5	Port. 6	Port. 7	Port. 8
ETB_0	Link_1,0	Link_1,1	Link_1,2	Link_1,3	Link_1,4	Link_1,5	Link_1,6	Link_1,7	Link_1,8
ETB_1	Link_1,9	Link_1,10	Link_1,11	Link_1,12	Link_1,13	Link_1,14	Link_1,15	Link_1,16	Link_1,17
ETB_2	Link_1,18	Link_1,19	Link_1,20	Link_1,21	Link_1,22	Link_1,23	Link_1,24	Link_1,25	Link_1,26
ETB_3	Link_1,27	Link_1,28	Link_1,29	Link_1,30	Link_1,31	Link_1,32	Link_1,33	Link_1,34	Link_1,35
ETB_4	Link_1,36	Link_1,37	Link_1,38	Link_1,39	Link_1,40	Link_1,41	Link_1,42	Link_1,43	Link_1,44
ETB_5	Link_1,45	Link_1,46	Link_1,47	Link_1,48	Link_1,49	Link_1,50	Link_1,51	Link_1,52	Link_1,53
ETB_6	Link_1,54	Link_1,55	Link_1,56	Link_1,57	Link_1,58	Link_1,59	Link_1,60	Link_1,61	Link_1,62
ETB_7	Link_1,63	Link_1,64	Link_1,65	Link_1,66	Link_1,67	Link_1,68	Link_1,69	Link_1,70	Link_1,71
ETB_8	Link_1,72	Link_1,73	Link_1,74	Link_1,75	Link_1,76	Link_1,77	Link_1,78	Link_1,79	Link_1,80
ETB_9	Link_1,81	Link_1,82	Link_1,83	Link_1,84	Link_1,85	Link_1,86	Link_1,87	Link_1,88	Link_1,89
ETB_10	Link_1,90	Link_1,91	Link_1,92	Link_1,93	Link_1,94	Link_1,95	Link_1,96	Link_1,97	Link_1,98
ETB_11	Link_1,99	Link_1,100	Link_1,101	Link_1,102	Link_1,103	Link_1,104	Link_1,105	Link_1,106	Link_1,107
ETB_12	Link_1,108	Link_1,109	Link_1,110	Link_1,111	Link_1,112	Link_1,113	Link_1,114	Link_1,115	Link_1,116
ETB_13	Link_1,117	Link_1,118	Link_1,119	Link_1,120	Link_1,121	Link_1,122	Link_1,123	Link_1,124	Link_1,125
ETB_14	Link_1,126	Link_1,127	Link_1,128	Link_1,129	Link_1,130	Link_1,131	Link_1,132	Link_1,133	Link_1,134
ETB_15	Link_1,135	Link_1,136	Link_1,137	Link_1,138	Link_1,139	Link_1,140	Link_1,141	Link_1,142	Link_1,143
ETB_16	Link_1,144	Link_1,145	Link_1,146	Link_1,147	Link_1,148	Link_1,149	Link_1,150	Link_1,151	Link_1,152
ETB_17	Link_1,153	Link_1,154	Link_1,155	Link_1,156	Link_1,157	Link_1,158	Link_1,159	Link_1,160	Link_1,161
ETB_18	Link_1,162	Link_1,163	Link_1,164	Link_1,165	Link_1,166	Link_1,167	Link_1,168	Link_1,169	Link_1,170
ETB_19	Link_1,171	Link_1,172	Link_1,173	Link_1,174	Link_1,175	Link_1,176	Link_1,177	Link_1,178	Link_1,179
ETB_20	Link_1,180	Link_1,181	Link_1,182	Link_1,183	Link_1,184	Link_1,185	Link_1,186	Link_1,187	Link_1,188
ETB_21	Link_1,189	Link_1,190	Link_1,191	Link_1,192	Link_1,193	Link_1,194	Link_1,195	Link_1,196	Link_1,197
ETB_22	Link_1,198	Link_1,199	Link_1,200	Link_1,201	Link_1,202	Link_1,203	Link_1,204	Link_1,205	Link_1,206
ETB_23	Link_1,207	Link_1,208	Link_1,209	Link_1,210	Link_1,211	Link_1,212	Link_1,213	Link_1,214	Link_1,215
ETB_24	Link_1,216	Link_1,217	Link_1,218	Link_1,219	Link_1,220	Link_1,221	Link_1,222	Link_1,223	Link_1,224
ETB_25	Link_1,225	Link_1,226	Link_1,227	Link_1,228	Link_1,229	Link_1,230	Link_1,231	Link_1,232	Link_1,233
ETB_26	Link_1,234	Link_1,235	Link_1,236	Link_1,237	Link_1,238	Link_1,239	Link_1,240	Link_1,241	Link_1,242
ETB_27	Link_1,243	Link_1,244	Link_1,245	Link_1,246	Link_1,247	Link_1,248	Link_1,249	Link_1,250	Link_1,251
ETB_28	Link_1,252	Link_1,253	Link_1,254	Link_1,255	Link_1,256	Link_1,257	Link_1,258	Link_1,259	Link_1,260
ETB_29	Link_1,261	Link_1,262	Link_1,263	Link_1,264	Link_1,265	Link_1,266	Link_1,267	Link_1,268	Link_1,269
ETB_30	Link_1,270	Link_1,271	Link_1,272	Link_1,273	Link_1,274	Link_1,275	Link_1,276	Link_1,277	Link_1,278
ETB_31	Link_1,279	Link_1,280	Link_1,281	Link_1,282	Link_1,283	Link_1,284	Link_1,285	Link_1,286	Link_1,287
ETB_32	Link_1,288	Link_1,289	Link_1,290	Link_1,291	Link_1,292	Link_1,293	Link_1,294	Link_1,295	Link_1,296
ETB_33	Link_1,297	Link_1,298	Link_1,299	Link_1,300	Link_1,301	Link_1,302	Link_1,303	Link_1,304	Link_1,305
ETB_34	Link_1,306	Link_1,307	Link_1,308	Link_1,309	Link_1,310	Link_1,311	Link_1,312	Link_1,313	Link_1,314
ETB_35	Link_1,315	Link_1,316	Link_1,317	Link_1,318	Link_1,319	Link_1,320	Link_1,321	Link_1,322	Link_1,323
ETB_36	Link_1,324	Link_1,325	Link_1,326	Link_1,327	Link_1,328	Link_1,329	Link_1,330	Link_1,331	Link_1,332
ETB_37	Link_1,333	Link_1,334	Link_1,335	Link_1,336	Link_1,337	Link_1,338	Link_1,339	Link_1,340	Link_1,341
ETB_38	Link_1,342	Link_1,343	Link_1,344	Link_1,345	Link_1,346	Link_1,347	Link_1,348	Link_1,349	Link_1,350
ETB_39	Link_1,351	Link_1,352	Link_1,353	Link_1,354	Link_1,355	Link_1,356	Link_1,357	Link_1,358	Link_1,359
ETB_40	Link_1,360	Link_1,361	Link_1,362	Link_1,363	Link_1,364	Link_1,365	Link_1,366	Link_1,367	Link_1,368
ETB_41	Link_1,369	Link_1,370	Link_1,371	Link_1,372	Link_1,373	Link_1,374	Link_1,375	Link_1,376	Link_1,377
ETB_42	Link_1,378	Link_1,379	Link_1,380	Link_1,381	Link_1,382	Link_1,383	Link_1,384	Link_1,385	Link_1,386
ETB_43	Link_1,387	Link_1,388	Link_1,389	Link_1,390	Link_1,391	Link_1,392	Link_1,393	Link_1,394	Link_1,395
ETB_44	Link_1,396	Link_1,397	Link_1,398	Link_1,399	Link_1,400	Link_1,401	Link_1,402	Link_1,403	Link_1,404
ETB_45	Link_1,405	Link_1,406	Link_1,407	Link_1,408	Link_1,409	Link_1,410	Link_1,411	Link_1,412	Link_1,413
ETB_46	Link_1,414	Link_1,415	Link_1,416	Link_1,417	Link_1,418	Link_1,419	Link_1,420	Link_1,421	Link_1,422
ETB_47	Link_1,423	Link_1,424	Link_1,425	Link_1,426	Link_1,427	Link_1,428	Link_1,429	Link_1,430	Link_1,431
ETB_48	Link_1,432	Link_1,433	Link_1,434	Link_1,435	Link_1,436	Link_1,437	Link_1,438	Link_1,439	Link_1,440
ETB_49	Link_1,441	Link_1,442	Link_1,443	Link_1,444	Link_1,445	Link_1,446	Link_1,447	Link_1,448	Link_1,449
ETB_50	Link_1,450	Link_1,451	Link_1,452	Link_1,453	Link_1,454	Link_1,455	Link_1,456	Link_1,457	Link_1,458
ETB_51	Link_1,459	Link_1,460	Link_1,461	Link_1,462	Link_1,463	Link_1,464	Link_1,465	Link_1,466	Link_1,467
ETB_52	Link_1,468	Link_1,469	Link_1,470	Link_1,471	Link_1,472	Link_1,473	Link_1,474	Link_1,475	Link_1,476
ETB_53	Link_1,477	Link_1,478	Link_1,479	Link_1,480	Link_1,481	Link_1,482	Link_1,483	Link_1,484	Link_1,485
ETB_54	Link_1,486	Link_1,487	Link_1,488	Link_1,489	Link_1,490	Link_1,491	Link_1,492	Link_1,493	Link_1,494
ETB_55	Link_1,495	Link_1,496	Link_1,497	Link_1,498	Link_1,499	Link_1,500	Link_1,501	Link_1,502	Link_1,503
ETB_56	Link_1,504	Link_1,505	Link_1,506	Link_1,507	Link_1,508	Link_1,509	Link_1,510	Link_1,511	Link_1,512
ETB_57	Link_1,513	Link_1,514	Link_1,515	Link_1,516	Link_1,517	Link_1,518	Link_1,519	Link_1,520	Link_1,521
ETB_58	Link_1,522	Link_1,523	Link_1,524	Link_1,525	Link_1,526	Link_1,527	Link_1,528	Link_1,529	Link_1,530
ETB_59	Link_1,531	Link_1,532	Link_1,533	Link_1,534	Link_1,535	Link_1,536	Link_1,537	Link_1,538	Link_1,539
ETB_60	Link_1,540	Link_1,541	Link_1,542	Link_1,543	Link_1,544	Link_1,545	Link_1,546	Link_1,547	Link_1,548
ETB_61	Link_1,549	Link_1,550	Link_1,551	Link_1,552	Link_1,553	Link_1,554	Link_1,555	Link_1,556	Link_1,557
ETB_62	Link_1,558	Link_1,559	Link_1,560	Link_1,561	Link_1,562	Link_1,563	Link_1,564	Link_1,565	Link_1,566
ETB_63	Link_1,567	Link_1,568	Link_1,569	Link_1,570	Link_1,571	Link_1,572	Link_1,573	Link_1,574	Link_1,575
ETB_64	Link_1,576	Link_1,577	Link_1,578	Link_1,579	Link_1,580	Link_1,581	Link_1,582	Link_1,583	Link_1,584
ETB_65	Link_1,585	Link_1,586	Link_1,587	Link_1,588	Link_1,589	Link_1,590	Link_1,591	Link_1,592	Link_1,593
ETB_66	Link_1,594	Link_1,595	Link_1,596	Link_1,597	Link_1,598	Link_1,599	Link_1,600	Link_1,601	Link_1,602
ETB_67	Link_1,603	Link_1,604	Link_1,605	Link_1,606	Link_1,607	Link_1,608	Link_1,609	Link_1,610	Link_1,611
ETB_68	Link_1,612	Link_1,613	Link_1,614	Link_1,615	Link_1,616	Link_1,617	Link_1,618	Link_1,619	Link_1,620
ETB_69	Link_1,621	Link_1,622	Link_1,623	Link_1,624	Link_1,625	Link_1,626	Link_1,627	Link_1,628	Link_1,629
ETB_70	Link_1,630	Link_1,631	Link_1,632	Link_1,633	Link_1,634	Link_1,635	Link_1,636	Link_1,637	Link_1,638
ETB_71	Link_1,639	Link_1,640	Link_1,641	Link_1,642	Link_1,643	Link_1,644	Link_1,645	Link_1,646	Link_1,647
ETB_72	Link_1,648	Link_1,649	Link_1,650	Link_1,651	Link_1,652	Link_1,653	Link_1,654	Link_1,655	Link_1,656
ETB_73	Link_1,657	Link_1,658	Link_1,659	Link_1,660	Link_1,661	Link_1,662	Link_1,663	Link_1,664	Link_1,665
ETB_74	Link_1,666	Link_1,667	Link_1,668	Link_1,669	Link_1,670	Link_1,671	Link_1,672	Link_1,673	Link_1,674
ETB_75	Link_1,675	Link_1,676	Link_1,677	Link_1,678	Link_1,679	Link_1,680	Link_1,681	Link_1,682	Link_1,683
ETB_76	Link_1,684	Link_1,685	Link_1,686	Link_1,687	Link_1,688	Link_1,689	Link_1,690	Link_1,691	Link_1,692
ETB_77	Link_1,693	Link_1,694	Link_1,695	Link_1,696	Link_1,697	Link_1,698	Link_1,699	Link_1,700	Link_1,701
ETB_78	Link_1,702	Link_1,703	Link_1,704	Link_1,705	Link_1,706	Link_1,707	Link_1,708	Link_1,709	Link_1,710
ETB_79	Link_1,711	Link_1,712	Link_1,713	Link_1,714	Link_1,715	Link_1,716	Link_1,717	Link_1,718	Link_1,719
ETB_80	Link_1,720	Link_1,721	Link_1,722	Link_1,723	Link_1,724	Link_1,725	Link_1,726	Link_1,727	Link_1,728
ETB_81	Link_1,729	Link_1,730	Link_1,731	Link_1,732	Link_1,733	Link_1,734	Link_1,735	Link_1,736	Link_1,737
ETB_82	Link_1,738	Link_1,739	Link_1,740	Link_1,741	Link_1,742	Link_1,743	Link_1,744	Link_1,745	Link_1,746
ETB_83	Link_1,747	Link_1,748	Link_1,749	Link_1,750	Link_1,751	Link_1,752	Link_1,753	Link_1,754	Link_1,755
ETB_84	Link_1,756	Link_1,757	Link_1,758	Link_1,759	Link_1,760	Link_1,761	Link_1,762	Link_1,763	Link_1,764
ETB_85	Link_1,765	Link_1,766	Link_1,767	Link_1,768	Link_1,769	Link_1,770	Link_1,771	Link_1,772	Link_1,773
ETB_86	Link_1,774	Link_1,775	Link_1,776	Link_1,777	Link_1,778	Link_1,779	Link_1,780	Link_1,781	Link_1,782
ETB_87	Link_1,783	Link_1,784	Link_1,785	Link_1,786	Link_1,787	Link_1,788	Link_1,789	Link_1,790	Link_1,791
ETB_88	Link_1,792	Link_1,793	Link_1,794	Link_1,795	Link_1,796	Link_1,797	Link_1,798	Link_1,799	Link_1,800
ETB_89	Link_1,801	Link_1,802	Link_1,803	Link_1,804	Link_1,805	Link_1,806	Link_1,807	Link_1,808	Link_1,809
ETB_90	Link_1,810	Link_1,811	Link_1,812	Link_1,813	Link_1,814	Link_1,815	Link_1,816	Link_1,817	Link_1,818
ETB_91	Link_1,819	Link_1,820	Link_1,821	Link_1,822	Link_1,823	Link_1,824	Link_1,825	Link_1,826	Link_1,827
ETB_92	Link_1,828	Link_1,829	Link_1,830	Link_1,831	Link_1,832	Link_1,833	Link_1,834	Link_1,835	Link_1,836
ETB_93	Link_1,837	Link_1,838	Link_1,839	Link_1,840	Link_1,841	Link_1,842	Link_1,843	Link_1,844	Link_1,845
ETB_94	Link_1,846	Link_1,847	Link_1,848	Link_1,849	Link_1,850	Link_1,851	Link_1,852	Link_1,853	Link_1,854
ETB_95	Link_1,855	Link_1,856	Link_1,857	Link_1,858	Link_1,859	Link_1,860	Link_1,861	Link_1,862	Link_1,863
ETB_96	Link_1,864	Link_1,865	Link_1,866	Link_1,867	Link_1,868	Link_1,869	Link_1,870	Link_1,871	Link_1,872
ETB_97	Link_1,873	Link_1,874	Link_1,875	Link_1,876	Link_1,877	Link_1,878	Link_1,879	Link_1,880	Link_1,881
ETB_98	Link_1,882	Link_1,883	Link_1,884	Link_1,885	Link_1,886	Link_1,887	Link_1,888	Link_1,889	Link_1,890
ETB_99	Link_1,891	Link_1,892	Link_1,893	Link_1,894	Link_1,895	Link_1,896	Link_1,897	Link_1,898	Link_1,899



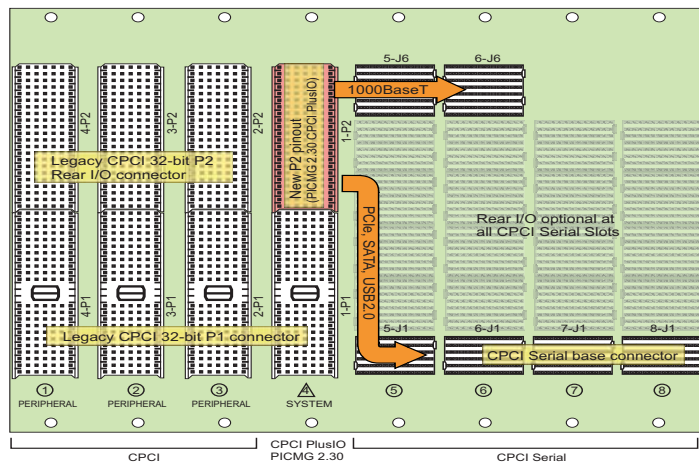
# Systems – CompactPCI PlusIO subrack sys-

4 U, 8 SLOT, WITH REAR I/O, ATX PSU



12309004

12308050



12409051

Backplane topology



- System for vertical board mounting with board format
  - Front: 3 U, 160 mm deep, 8 slot
  - Rear, rear I/O: 3 U, 80 mm deep, 3 slot
- Backplane
  - 4 slot, 3 U, 32 bit, CompactPCI
  - 4 slot, 3 U, CompactPCI PlusIO
  - Power Backplane
- ATX PSU, 300 W
- Heat dissipation by 1 U hot-swap fan unit, from bottom to top
- Option to mount a slimline DVD drive and hard disk

**DELIVERY COMPRISES** (completely assembled, wired and tested)

Item	Qty	Description
1	1	Shielded 19" chassis, Al; perforated top cover and base plate; front handles
2	8	Front slot; IEEE guide rails, incl. ESD clips (ESD clips fitted to bottom front), for vertical boards (3 U, 160 mm deep)
3	3	Rear slot; IEEE guide rails, incl. ESD clips (ESD clips fitted to bottom), for vertical rear I/O boards (3 U, 80 mm deep)
4	1	Backplane for 3 U boards; 8 slots comprising 4 slots 32-bit CompactPCI plus 4 slots CompactPCI PlusIO (PICMG 2.30, part no. 23007-601)
5	1	ATX power supply, 300 W; 32 HP wide range input 100 ... 240 V <sub>AC</sub> (3.3 V/28 A, 5 V/35 A, 12 V/22 A, -12 V/0.8 A); IEC AC input module with socket; mains switch; fan
6	1	Hot-swap fan tray, extractable, 1 U, 2 × 12 V <sub>DC</sub> fan
7	1	Module to accommodate a slimline DVD drive unit
8	1	3 U, 8 HP module to accommodate a hard disk drive
9	1	Front panel, front, 3 U, 8 HP
10	1	Front panel, front, 3 U, 4 HP, removable, to expand system slot to 8 HP
11	1	Front panel, rear, 3 U, 24 HP
12	1	Front panel, rear, 3 U, 48 HP
13	1	Cable harness to connect all system components

## ORDER INFORMATION

Height U	Height mm	Width HP	Depth mm	Number of slots	Part no.
4	177	84	275	8	24579-405

### Accessories

Equipment cables	<b>Page 3.38</b>
Front panels	<b>Page 7.5</b>
Modules to mount drive units	<b>Page 8.110</b>
Front panels with handle	<b>Page 7.32</b>
Fan control modules (FCM)	<b>Page 8.108</b>

### Note

- Modified systems available on request
- System in accordance with IEC 60297-3-101, -102, -103; IEEE 1101.1, 1101.10/11; backplane in accordance with PICMG 2.0 rev. 3.0 and 2.30

# Systems – CompactPCI PlusIO subrack sys-

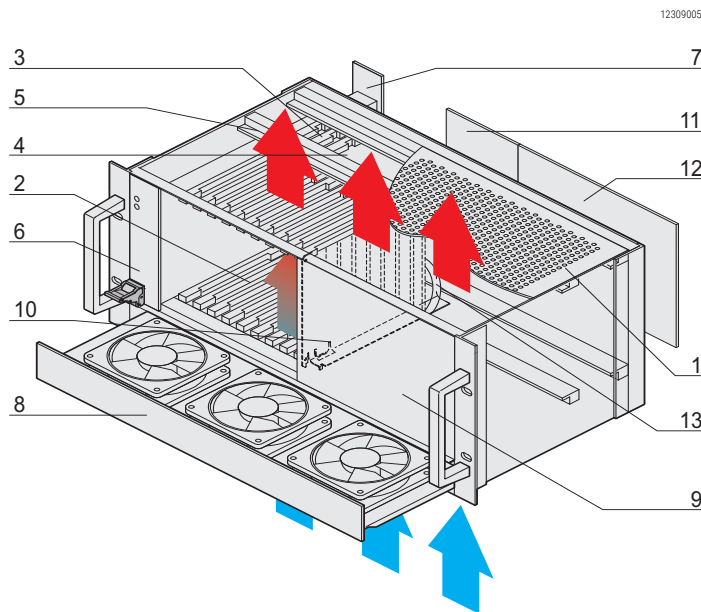
**4 U, 8 SLOT, WITH REAR I/O, 19"-COMPATIBLE PSU**



- System for vertical board mounting with board format
  - Front: 3 U, 160 mm deep, 8 slot
  - Rear, rear I/O: 3 U, 80 mm deep, 3 slot
- Backplane
  - 4 slot, 3 U, 32 bit, CompactPCI
  - 4 slot, 3 U, CompactPCI PlusIO
  - Power backplane
- 19"-compatible PSU, 250 W, 3 U, 8 HP
- Heat dissipation by 1 U hot-swap fan unit, from bottom to top
- Option to mount a hard disk

**DELIVERY COMPRISES** (completely assembled, wired and tested)

Item	Qty	Description
1	1	Shielded 19" chassis, Al; perforated top cover and base plate; front handles
2	8	Front slot; IEEE guide rails, incl. ESD clips (ESD clips fitted to bottom front), for vertical boards (3 U, 160 mm deep)
3	3	Rear slot; IEEE guide rails, incl. ESD clips (ESD clips fitted to bottom), for vertical rear I/O boards (3 U, 80 mm deep)
4	1	Backplane for 3 U boards; 8 slots comprising 4 slots 32-bit CompactPCI plus 4 slots CompactPCI PlusIO (PICMG 2.30, part no. 23007-601)
5	1	Power backplane, 3 U, 8 HP with 1 x P47 connector (part no. 23098-105)
6	1	19" compatible power supply, 250 W (3 U, 8 HP, part no. 13100-141)
7	1	AC input module, 3 U, 8 HP; AC line filter, 110 ... 250 V <sub>AC</sub> , 50 ... 60 HZ, max. current 10 A
8	1	Hot-swap fan tray, extractable, 1 U, 3 x 12 V <sub>DC</sub> fans
9	1	Front panel front, 3 U, 44 HP
10	1	Air baffle, 3 U, 160 mm deep
11	1	Front panel, rear, 3 U, 60 HP
12	1	Front panel, rear, 3 U, 4 HP
13	1	Cable harness to connect all system components



## ORDER INFORMATION

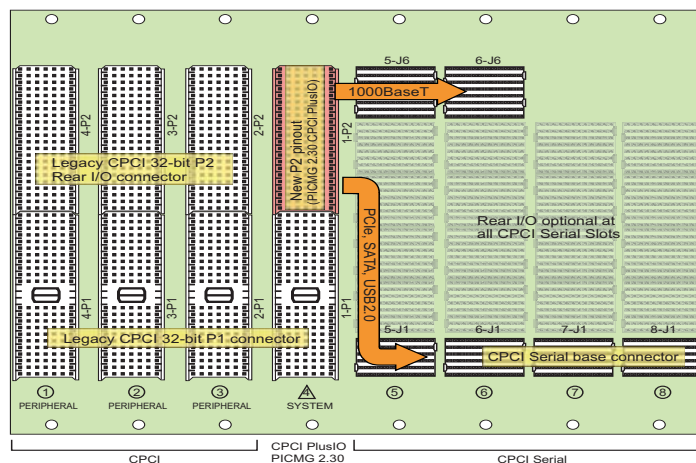
Height U	Height mm	Width HP	Depth mm	Number of slots	Part no.
4	177	84	275	8	24579-400

### Accessories

Equipment cables	<b>Page 3.38</b>
Front panels	<b>Page 7.5</b>
Modules to mount drive units	<b>Page 8.110</b>
Front panels with handle	<b>Page 7.32</b>
Fan control modules (FCM)	<b>Page 8.108</b>

### Note

- Modified systems available on request
- System in accordance with IEC 60297-3-101, -102, -103; IEEE 1101.1, 1101.10/11; backplane in accordance with PICMG 2.0 rev. 3.0 and 2.30



Backplane topology

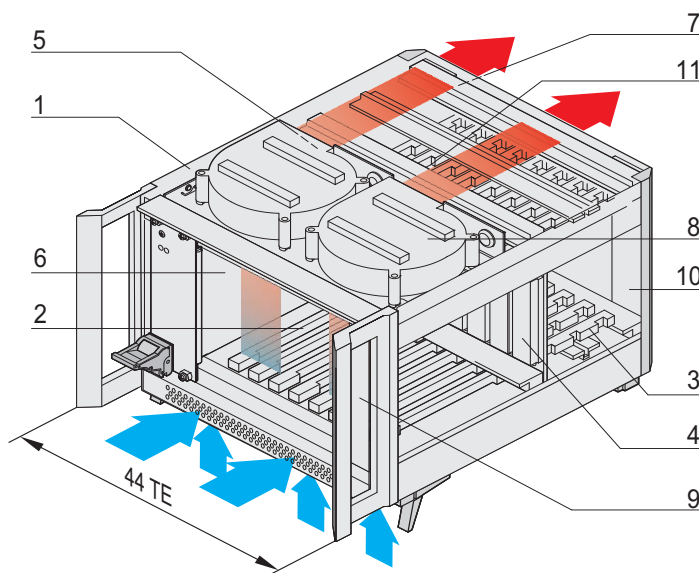


# Systems – CompactPCI PlusIO subrack sys-

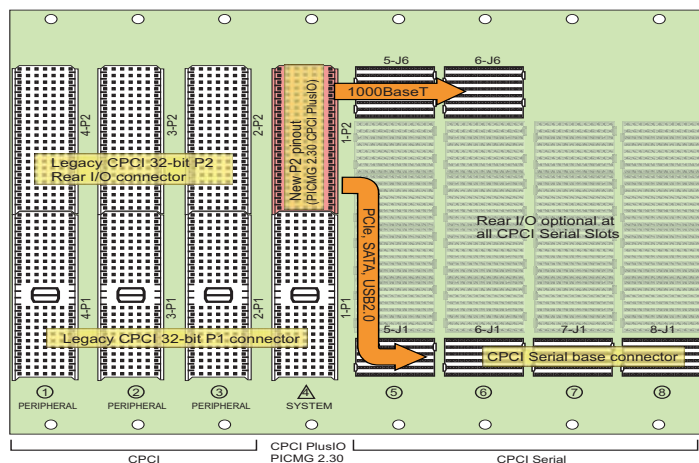
**4 U, 8 SLOT, 44 HP, WITH REAR I/O**



12312001



12309052



12409051

Backplane topology



- System for vertical board mounting with board format
  - Front: 3 U, 160 mm deep
  - Rear I/O: 3 U, 80 mm deep, 3 slot
- Backplane
  - 4 slot, 3 U, 32 bit, CompactPCI
  - 4 slot, 3 U, CompactPCI PlusIO
  - Power Backplane
- 19" PSU, 250 W, 3 U, 8 HP
- Heat dissipation by two radial fans, from front to rear

## DELIVERY COMPRISES (completely assembled, wired and tested)

Item	Qty	Description
1	1	ratioPacPRO-air case, RAL 9006, shielded, perforated air inlet/exhaust openings front and rear; front handles RAL 7016
2	8	Front slot; IEEE guide rails, incl. ESD clips (ESD clips fitted at bottom front), for vertical boards (3 U, 160 mm deep)
3	3	Rear slot; IEEE guide rails, incl. ESD clips (ESD clips fitted at bottom), for vertical rear I/O boards (3 U, 80 mm deep)
4	1	Backplane for 3 U boards; 8 slots comprising 4 slots 32-bit CompactPCI plus 4 slots CompactPCI PlusIO (PICMG 2.30, part no. 23007-601)
5	1	Power backplane, 3 U, 8 HP with 1 x P47 connector part no. 23098-105)
6	1	19" compatible power supply, 250 W (3 U, 8 HP; part no. 13100-141)
7	1	AC input module, 3 U, 8 HP; AC line filter, 110 ... 250 V <sub>AC</sub> , 50 ... 60 HZ, max. current 10 A
8	2	Radial fan, 36 m <sup>3</sup> /h each, free blowing
9	1	Front panel, front, 3 U, 4 HP, removable
10	1	Front panel, rear, 3 U, 24 HP
11	1	Cable harness to connect all system components

Height U	Height mm	Width HP	Depth mm	Number of slots	Part no.
4	177	44	275	8	24579-605

## Accessories

Equipment cables	<b>Page 3.38</b>
Front panels	<b>Page 7.5</b>
Modules to mount drive units	<b>Page 8.110</b>
Front panels with handle	<b>Page 7.32</b>
Fan control modules (FCM)	<b>Page 8.108</b>

## Note

- Modified systems available on request
- System in accordance with IEC 60297-3-101, -102, -103; IEEE 1101.1, 1101.10/11; backplane in accordance with PICMG 2.0 rev. 3.0 and 2.30



# Systems – CompactPCI subrack systems

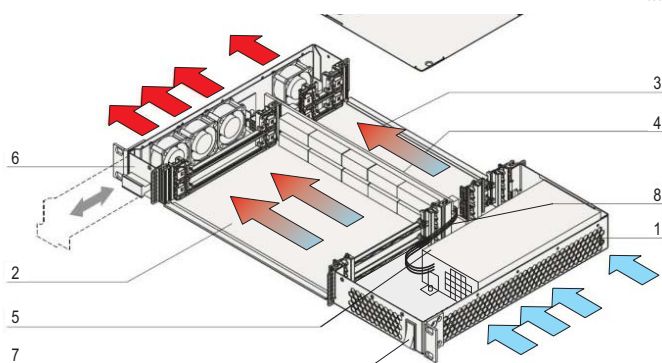
## SYSTEMS, 1, 2, 3 U, WITH REAR I/O AND ATX PSU



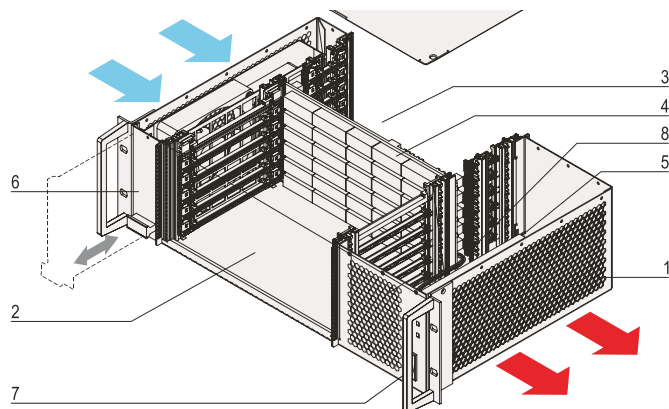
12305001



12305005



12304055



12304060

- System for horizontal board mounting with board format
  - Front: 6 U, 160 mm deep
  - Rear, rear I/O: 6 U, 80 mm deep
- Backplane: 2, 4, 6 slot, 64 bit; system slot on left
- ATX PSU
- Heat dissipation by extractable hot-swap fan unit;
  - in 1 U system from right to left;
  - in 2 and 3 U systems from left to right

### DELIVERY COMPRISES (completely assembled, wired and tested)

Item	Qty	Description
1	1	Shielded 19" chassis, St, powder-coated, black, RAL 9005
2	1	Number of front slots see Order Information; IEEE guide rails, incl. ESD clips (ESD clips fitted to front left), for horizontal board mounting (6 U, 160 mm deep)
3	1	Number of rear slots see Order Information; IEEE guide rails, incl. ESD clips (ESD clips fitted to front left), for horizontal mounting of rear I/O boards (6 U, 80 mm deep)
4	1	Backplane for 6 U boards, for number of slots see Order Information, 64 bit; system slot on the left
5	1	ATX PSU, wide input range 100 ... 240 V <sub>AC</sub> (rating data see Order Information); IEC plug, switch (controls DC power only), LED (Power ON); Fan
6	1	Hot-swap fan unit, number of fans see Order Information
7	1	Mains switch
8	1	Cable harness to connect all system components

### Note

- Modified systems available on request
- System in accordance with IEC 60297-3-101, -102, -103; IEEE 1101.1, 1101.10/11; backplane in accordance with PICMG 2.0 rev. 3.0 and 2.30

### ORDER INFORMATION

Height	Depth	Backplane	Fan unit	Power supply	Part no.
U	mm	Slots	Number of fans		
1	43.65	2 slot, 6 U	4	ATX 250 W, 3.3 V/14 A, 5 V/23 A, 12 V/16 A, -12 V/0.5 A	<b>24579-077</b>
2	88.10	4 slot, 6 U	2	ATX 250 W, 3.3 V/14 A, 5 V/20 A, 12 V/16 A, -12 V/0.8 A	<b>24579-081</b>

\*) Systems with additional heat dissipation in rear I/O space for 3 U systems available on request



### Accessories

Equipment cables	<b>Page 3.38</b>
Front panels	<b>Page 7.5</b>
Modules to mount drive units	<b>Page 8.110</b>
Front panels with handle	<b>Page 7.32</b>
Fan control modules (FCM)	<b>Page 8.108</b>

# Systems – CompactPCI subrack systems

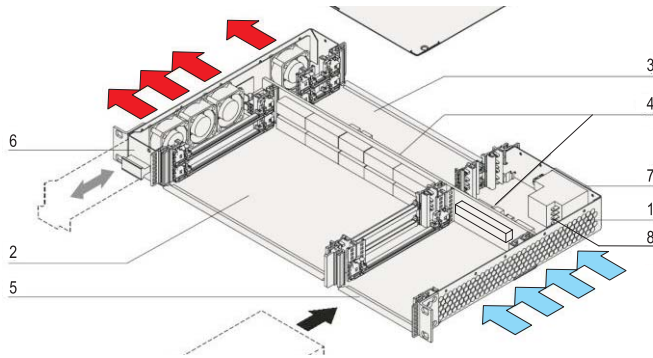
SYSTEMS, 1, 2, 3, 4 U, WITH REAR I/O, FOR 19" PSU



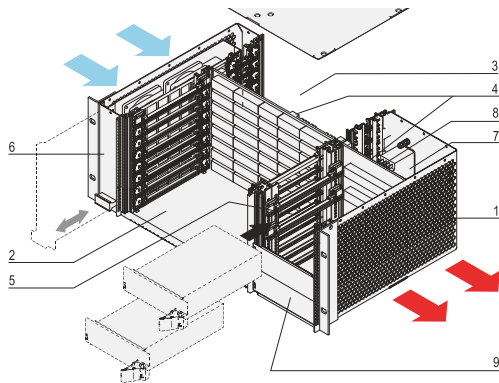
12305002



12305007



12304056



12304056

- System for horizontal board mounting with board format
  - Front: 6 U, 160 mm deep
  - Rear, rear I/O: 6 U, 80 mm deep
- Monolithic backplane for signals and power
  - 2, 4, 6, 8 slot, 6 U, 64 bit; system slot on left
  - Power plug to PICMG 2.11 (P 47)
- Prepared for installation of 19" CompactPCI PSUs (3 U, 8 HP)
- Heat dissipation by extractable hot swap fan unit; 1 U system from right to left; in 2, 3 and 4 U systems from left to right

**DELIVERY COMPRISES** (completely assembled, wired and tested)

Item	Qty	Description
1	1	Shielded 19" chassis, St, powder-coated, black, RAL 9005
2	1	Number of slots to front see Order Information; IEEE guide rails, incl. ESD clips (ESD clips fitted front right), for horizontal board mounting (6 U, 160 mm deep)
3	1	Number of rear slots see Order Information; IEEE guide rails, incl. ESD clips (ESD clips fitted front right), for horizontal mounting of rear I/O boards (6 U, 80 mm deep)
4	1	Monolithic backplane for 6 U boards and voltage supply, for number of slots see Order Information, 64 bit; system slot left, in accordance with PICMG 2.0 rev. 3.0, voltage supply: 1 x P 47 socket for 1 U, 2 x P 47 socket for 2, 3, 4 U
5	1	Installation space for 19" CompactPCI power supply unit (3 U, 8 HP; For quantity see Order Information)
6	1	Hot-swap fan unit, number of fans see Order Information
7	1	AC input (IEC plug), mains filter module, fuse, mains switch
8	1	Cable harness to connect all system components
9	1	3 U, 8 HP front panel, mounted at front, from 2 U system

## Note

- Modified systems available on request
- 48 V<sub>DC</sub> version on request
- System in accordance with IEC 60297-3-101, -102, -103; IEEE 1101.1, 1101.10/11; backplane in accordance with PICMG 2.0 rev. 3.0 and 2.30

## ORDER INFORMATION

Height U	Height mm	Depth mm	Backplane Slots	Fan unit Number of fans	Power supply (please order separately)	Quantity Connector type	Part no.
1	43.65	275	2 slot, 6 U	4	1	1 x P 47	<b>24579-078</b>
2	88.10	275	4 slot, 6 U	2	2	2 x P 47	<b>24579-082</b>
3	132.50	275	6 slot, 6 U	1 *)	2 ... 3	2 x P 47	<b>24579-080</b>
4	177.00	275	8 slot, 6 U	4 *)	2 ... 4	2 x P 47	24579-106

19" compatible power supply, 250 W, 3 U, 8 HP Please order PSU separately, see page 9.24

**13100-141**

\*) Systems with additional heat dissipation in rear I/O space for 3 U and 4 U systems available on request

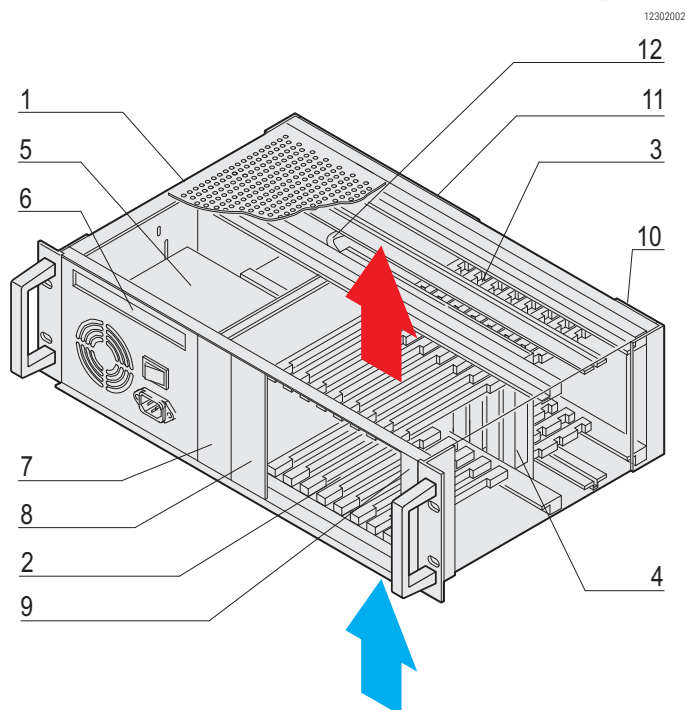


## Accessories

Equipment cables	<b>Page 3.38</b>
Front panels	<b>Page 7.5</b>
Modules to mount drive units	<b>Page 8.110</b>
Front panels with handle	<b>Page 7.32</b>
Fan control modules (FCM)	<b>Page 8.108</b>

# Systems – CompactPCI subrack systems

## SYSTEM, 3 U, 8 SLOT, WITH REAR I/O



- System for vertical board mounting with board format
  - Front: 3 U, 160 mm deep
  - Rear, rear I/O: 3 U, 80 mm deep
- Backplane
  - 8 slot, 3 U, 32 bit; system slot on right
  - 8 HP wide CPU can be used
- ATX PSU, 300 W
- Heat dissipation by convection, upward from below
- Option to mount a slimline DVD drive and hard disk

### DELIVERY COMPRISES (completely assembled, wired and tested)

Item	Qty	Description
1	1	Shielded 19" chassis, AI; perforated top cover and base plate; 2 front handles
2	8	Front slot; IEEE guide rails, incl. ESD clips (ESD clips fitted bottom front), for vertical boards (3 U, 160 mm deep)
3	8	Rear slot; IEEE guide rails, incl. ESD clips (ESD clips fitted bottom), for vertical rear I/O boards (3 U, 80 mm deep)
4	1	Backplane for 3 U boards; 8 slot, 32 bit (part no. <u>23006-818</u> ); system slot on right, 4 HP (8 HP wide CPU can be used)
5	1	ATX power supply; 300 W; 32 HP, wide input range 100 ... 240 V <sub>AC</sub> (3.3 V/28 A, 5 V/35 A, 12 V/22 A, -12 V/0.8 A); IEC AC input module with socket; mains switch; fan
6	1	Module to accommodate a slimline DVD drive unit
7	1	3 U, 8 HP module to accommodate a hard disk drive
8	1	Front panel front, 3 U, 8 HP
9	1	Front panel, front, 3 U, 4 HP, to expand system slot to 8 HP
10	1	Front panel, rear, 3 U, 4 HP
11	1	Front panel, rear, 3 U, 48 HP
12	1	Cable harness to connect all system components

### ORDER INFORMATION

Height U	Height mm	Depth mm	Number of slots	Part no.
3	132.55	275	8	<b>24579-031</b>

### Accessories

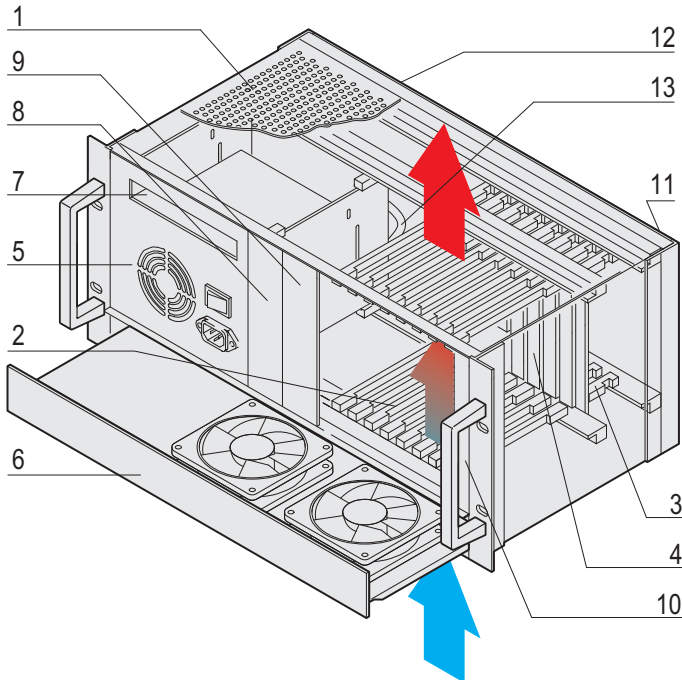
DC fan 12 V, air flow volume 140 m <sup>3</sup> /h, 119 x 119 x 32 mm, 1 piece	<b>60713-600</b>
Fan retainer for 119 x 119 x 32 mm fan, (E)PB foam, 1 piece	<b>24579-212</b>
Fan tray, 1 U for 3 or 6 U CompactPCI systems (boards assembled vertically), 1 piece	<b>24579-105</b>
Air filter consisting of filter holder and filter mat, PU 1 set	<b>24579-033</b>
Equipment cables	<b>Page 3.38</b>
Front panels	<b>Page 7.5</b>
Modules to mount drive units	<b>Page 8.110</b>
Front panels with handle	<b>Page 7.32</b>
Fan control modules (FCM)	<b>Page 8.108</b>

### Note

- Modified systems available on request
- System in accordance with IEC 60297-3-101, -102, -103; IEEE 1101.1, 1101.10/11; backplane in accordance with PICMG 2.0 rev. 3.0 and 2.30

# Systems – CompactPCI subrack systems

## SYSTEM, 4 U, 8 SLOT, WITH REAR I/O, ATX FRAME PSU



12308001

12308050



- System for vertical board mounting with board format
  - Front: 3 U, 160 mm deep
  - Rear, rear I/O: 3 U, 80 mm deep
- Backplane
  - 8 slot, 3 U, 32 bit; system slot on right
  - 8 HP wide CPU can be used
- ATX PSU, 300 W
- Heat dissipation by 1 U hot-swap fan unit, upward from below
- Option to mount a slimline DVD drive and hard disk

### DELIVERY COMPRISES (completely assembled, wired and tested)

Item	Qty	Description
1	1	Shielded 19" chassis, Al; perforated top cover and base plate; front handles
2	8	Front slot; IEEE guide rails, incl. ESD clips (ESD clips fitted to bottom front), for vertical boards (3 U, 160 mm deep)
3	8	Rear slot; IEEE guide rails, incl. ESD clips (ESD clips fitted to bottom), for vertical rear I/O boards (3 U, 80 mm deep)
4	1	Backplane for 3 U boards; 8 slot, 32 bit (part no. <a href="#">23006-818</a> ); system slot on right, 4 HP (8 HP wide CPU can be used)
5	1	ATX power supply, 300 W; 32 HP, wide input range 100 ... 240 V <sub>AC</sub> (3.3 V/28 A, 5 V/35 A, 12 V/22 A, -12 V/0.8 A); IEC AC input module with socket; mains switch; fan
6	1	Hot-swap fan tray, extractable, 1 U, 2 × 12 V <sub>DC</sub> fans
7	1	Module to accommodate a slimline DVD drive unit
8	1	Module to accommodate a CD ROM drive, 3 U, 8 HP
9	1	Front panel, front, 3 U, 8 HP
10	1	Front panel, front, 3 U, 4 HP, removable, to expand system slot to 8 HP
11	1	Front panel, rear, 3 U, 4 HP
12	1	Front panel, rear, 3 U, 48 HP
13	1	Cable harness to connect all system components

### ORDER INFORMATION

Height U	Height mm	Width HP	Depth mm	Number of slots	Part no.
4	177	84	275	8	24579-250

#### Accessories

Air filter consisting of filter holder and filter mat, PU 1 set	<b>24579-033</b>
Equipment cables	<b>Page 3.38</b>
Front panels	<b>Page 7.5</b>
Modules to mount drive units	<b>Page 8.110</b>
Front panels with handle	<b>Page 7.32</b>
Fan control modules (FCM)	<b>Page 8.108</b>

### Note

- Modified systems available on request
- System in accordance with IEC 60297-3-101, -102, -103; IEEE 1101.1, 1101.10/11; backplane in accordance with PICMG 2.0 rev. 3.0 and 2.30

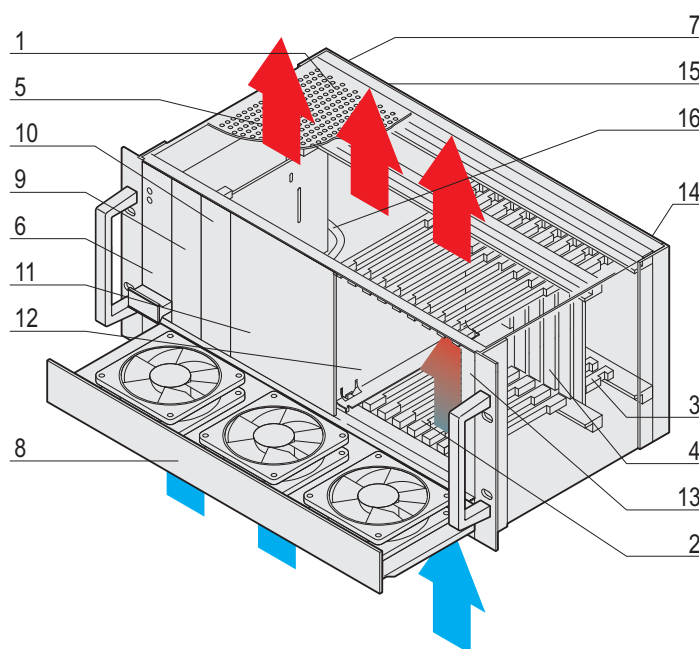


# Systems – CompactPCI subrack systems

## SYSTEM, 4 U, 8 SLOT, WITH REAR I/O, 19"-COMPATIBLE PSU



12308005



12308052



- System for vertical board mounting with board format
  - Front: 3 U, 160 mm deep
  - Rear, rear I/O: 3 U, 80 mm deep
- Backplane
  - 8 slot, 3 U, 32 bit; system slot on right
  - 8 HP wide CPU can be used, power backplane
- 19"-compatible PSU, 250 W, 3 U, 8 HP
- Heat dissipation by 1 U hot-swap fan unit, from bottom to top
- Option to mount a hard disk

### DELIVERY COMPRISES (completely assembled, wired and tested)

Item	Qty	Description
1	1	Shielded 19" chassis, AI; perforated top cover and base plate; front handles
2	8	Front slot; IEEE guide rails, incl. ESD clips (ESD clips fitted to bottom front), for vertical boards (3 U, 160 mm deep)
3	8	Rear slot; IEEE guide rails, incl. ESD clips (ESD clips fitted to bottom), for vertical rear I/O boards (3 U, 80 mm deep)
4	1	Backplane for 3 U boards; 8 slot, 32 bit (part no. <a href="#">23006-818</a> ); system slot on right, 4 HP (8 HP wide CPU can be used)
5	1	Power backplane, 3 U, 8 HP with 1 x P47 plug
6	1	19" compatible power supply, 250 W (3 U, 8 HP; part no. <a href="#">13100-141</a> )
7	2	AC input module, 3 U, 8 HP; AC line filter, 110 ... 250 V <sub>AC</sub> , 50 ... 60 HZ, max. current 10 A
8	1	Hot-swap fan tray, extractable, 1 U, 3 x 12 V <sub>DC</sub> fans
9	1	Front panel front, 3 U, 8 HP
10	1	3 U, 8 HP module to accommodate a hard disk drive
11	1	Front panel front, 3 U, 24 HP
12	1	Air baffle, 3 U, 160 mm deep
13	1	Front panel, front, 3 U, 4 HP, removable, to expand system slot to 8 HP
14	1	Front panel, rear, 3 U, 4 HP
15	1	Front panel, rear, 3 U, 40 HP
16	1	Cable harness to connect all system components

### ORDER INFORMATION

Height U	Height mm	Width HP	Depth mm	Number of slots	Part no.
4	177	84	275	8	24579-260

#### Accessories

Air filter consisting of filter holder and filter mat, PU 1 set	<b>24579-033</b>
Equipment cables	<b>Page 3.38</b>
Front panels	<b>Page 7.5</b>
Modules to mount drive units	<b>Page 8.110</b>
Front panels with handle	<b>Page 7.32</b>
Fan control modules (FCM)	<b>Page 8.108</b>

### Note

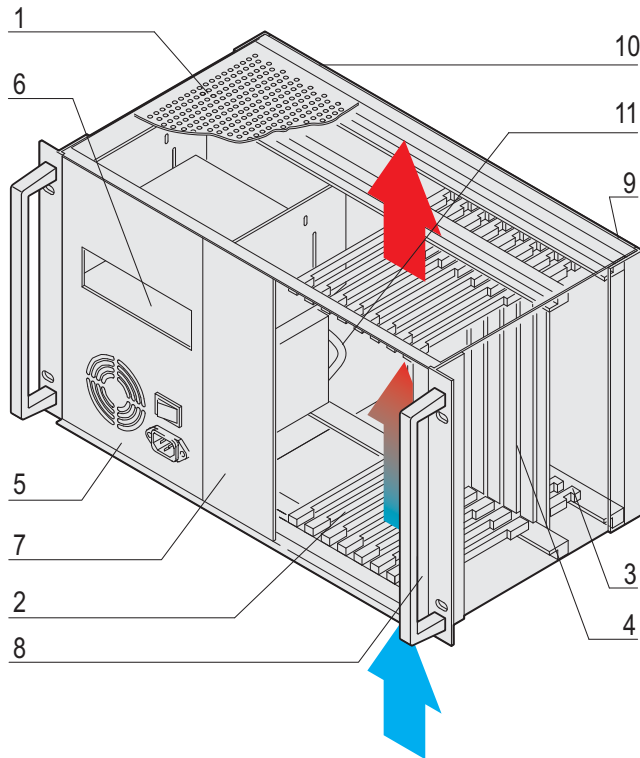
- Modified systems available on request
- System in accordance with IEC 60297-3-101, -102, -103; IEEE 1101.1, 1101.10/11; backplane in accordance with PICMG 2.0 rev. 3.0 and 2.30

# Systems – CompactPCI subrack systems

## 6 U, 8 SLOT, WITH REAR I/O



12302004



12303056



- System for vertical board mounting with board format
  - Front: 6 U, 160 mm deep
  - Rear, rear I/O: 6 U, 80 mm deep
- Backplane
  - 8 slot, 6 U, 64 bit; system slot to right
  - 8 HP wide CPU can be used
- ATX PSU, 300 W
- Heat dissipation by convection, from bottom to top
- Option to mount a 5.25" DVD drive unit

### DELIVERY COMPRISES (completely assembled, wired and tested)

Item	Qty	Description
1	1	Shielded 19" chassis, AI; perforated top cover and base plate; 2 front handles
2	8	Front slot; IEEE guide rails, incl. ESD clips (ESD clips fitted to bottom front), for vertical boards (6 U, 160 mm deep)
3	8	Rear slot; IEEE guide rails, incl. ESD clips (ESD clips fitted to bottom), for vertical rear I/O boards (6 U, 80 mm deep)
4	1	Backplane for 6 U boards; 8 slot, 64 bit (part no. <u>23006-868</u> ); system slot on right, 4 HP (8 HP wide CPU can be used)
5	1	ATX power supply, 300 W, 32 HP, wide input range 100 ... 240 V <sub>AC</sub> (3.3 V/28 A, 5 V/35 A, 12 V/22 A, -12 V/0.8 A); IEC AC input module with socket; mains switch; fan
6	1	Module to accommodate a 5.25" DVD drive
7	1	Front panel, front, 6 U, 16 HP
8	1	Front panel, front, 6 U, 4 HP, removable, to expand system slot to 8 HP
9	1	Front panel, rear, 6 U, 4 HP
10	1	Front panel, rear, 6 U, 48 HP
11	1	Cable harness to connect all system components

### ORDER INFORMATION

Height	Height	Depth	Number of	Part no.
U	mm	mm	slots	
6	265.9	275	8	<b>24579-030</b>

#### Accessories

DC fan 12 V, air flow volume 140 m <sup>3</sup> /h, 119 x 119 x 32 mm, 1 piece	<b>60713-600</b>
Fan retainer for 119 x 119 x 32 mm fan, (E)PB foam, 1 piece	<b>24579-212</b>
Fan tray, 1 U for 3 or 6 U CompactPCI systems (boards assembled vertically), 1 piece	<b>24579-105</b>
Air filter consisting of filter holder and filter mat, PU 1 set	<b>24579-033</b>
Equipment cables	<b>Page 3.38</b>
Front panels	<b>Page 7.5</b>
Modules to mount drive units	<b>Page 8.110</b>
Front panels with handle	<b>Page 7.32</b>
Fan control modules (FCM)	<b>Page 8.108</b>

### Note

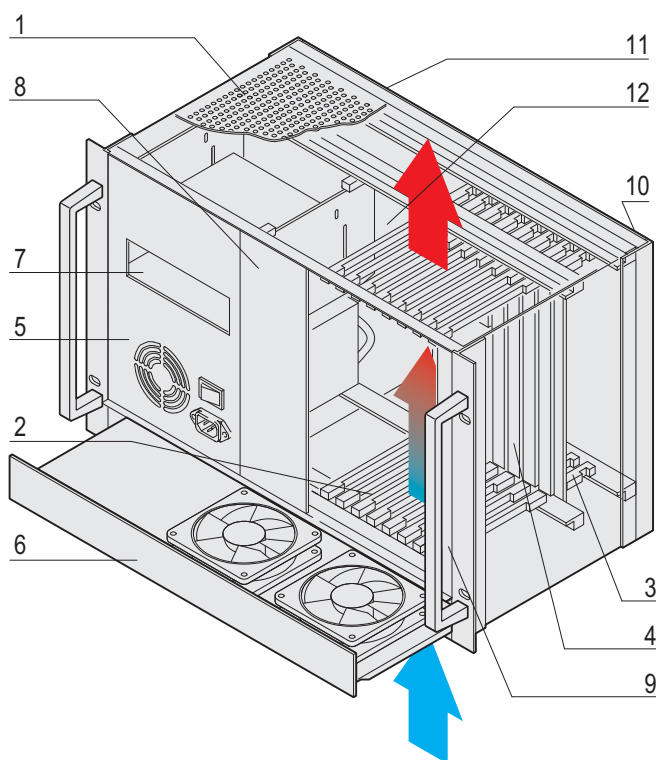
- Modified systems available on request
- System in accordance with IEC 60297-3-101, -102, -103; IEEE 1101.1, 1101.10/11; backplane in accordance with PICMG 2.0 rev. 3.0 and 2.30

# Systems – CompactPCI subrack systems

## SYSTEM, 7 U, 8 SLOT, WITH REAR I/O



12302013



12303057



- System for vertical board mounting with board format
  - Front: 6 U, 160 mm deep
  - Rear, rear I/O: 6 U, 80 mm deep
- Backplane
  - 8 slot, 6 U, 64 bit, system slot to right
  - 8 HP wide CPU can be used
- ATX PSU, 300 W
- Heat dissipation by 1 U hot-swap fan unit, from bottom to top
- Option to mount a 5.25" DVD drive unit

### DELIVERY COMPRISES (completely assembled, wired and tested)

Item	Qty	Description
1	1	Shielded 19" chassis, Al; perforated top cover and base plate; Front handles
2	8	Front slot; IEEE guide rails, incl. ESD clips (ESD clips fitted to bottom front), for vertical boards (6 U, 160 mm deep)
3	8	Rear slot; IEEE guide rails, incl. ESD clips (ESD clips fitted to bottom), for vertical rear I/O boards (6 U, 80 mm deep)
4	1	Backplane for 6 U boards; 8 slot, 64 bit (part no. <u>23006-868</u> ; system slot on right, 4 HP (8 HP wide CPU can be used)
5	1	ATX power supply, 300 W, 32 HP, wide input range 100 ... 240 V <sub>AC</sub> (3.3 V/28 A, 5 V/35 A, 12 V/22 A, -12 V/0.8 A); IEC AC input module with socket; mains switch; fan
6	1	Hot-swap fan tray, extractable, 1 U, 2 × 12 V <sub>DC</sub> fans
7	1	Module to accommodate a 5.25" DVD drive
8	1	Front panel, front, 6 U, 16 HP
9	1	Front panel, front, 6 U, 4 HP, removable, to expand system slot to 8 HP
10	1	Front panel, rear, 6 U, 4 HP
11	1	Front panel, rear, 6 U, 48 HP
12	1	Cable harness to connect all system components

### ORDER INFORMATION

Height U	Height mm	Depth mm	Number of slots	Part no.
7	310.35	275	8	<b>24579-026</b>

#### Accessories

Air filter consisting of filter holder and filter mat, PU 1 set	<b>24579-033</b>
Equipment cables	<b>Page 3.38</b>
Front panels	<b>Page 7.5</b>
Modules to mount drive units	<b>Page 8.110</b>
Front panels with handle	<b>Page 7.32</b>
Fan control modules (FCM)	<b>Page 8.108</b>

### Note

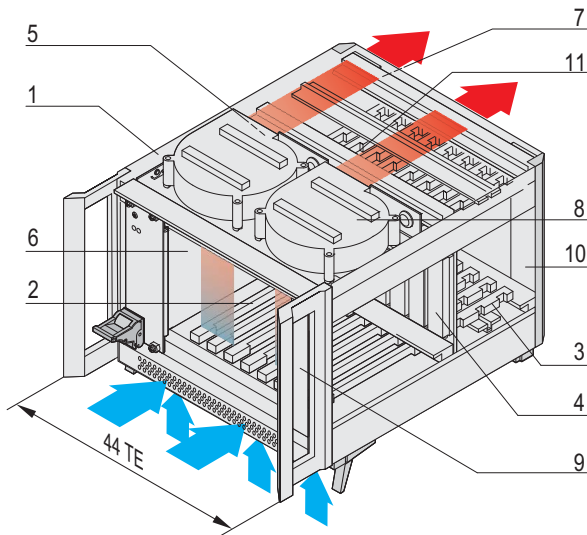
- Modified systems available on request
- System in accordance with IEC 60297-3-101, -102, -103; IEEE 1101.1, 1101.10/11; backplane in accordance with PICMG 2.0 rev. 3.0 and 2.30

# Systems – CompactPCI case systems

## SYSTEM, 4 U, 8 SLOT, 44 HP, WITH REAR I/O



12309003



12309052



- System for vertical board mounting with board format
  - Front: 3 U, 160 mm deep
  - Rear, rear I/O: 3 U, 80 mm deep
- Backplane
  - 8 slot, 3 U, 32 bit, system slot on right
  - 8 HP wide CPU can be used
- 19" PSU, 250 W, 3 U, 8 HP
- Heat dissipation by two radial fans, from front to rear

### DELIVERY COMPRISES (completely assembled, wired and tested)

Item	Qty	Description
1	1	ratiopacPRO-air case, RAL 9006, shielded, perforated air inlet/exhaust openings front and rear; front handles RAL 7016
2	8	Front slot; IEEE guide rails, incl. ESD clips (ESD clips fitted to bottom front), for vertical boards (3 U, 160 mm deep)
3	8	Rear slot; IEEE guide rails, incl. ESD clips (ESD clips fitted to bottom), for vertical rear I/O boards (3 U, 80 mm deep)
4	1	Backplane for 3 U boards; 8 slot, 32 bit (part no. <u>23006-818</u> ); system slot on right, 4 HP (8 HP wide CPU can be used)
5	1	Power backplane, 3 U, 8 HP with 1 x P47 plug
6	1	19" compatible power supply, 250 W (3 U, 8 HP; Part no. <u>13100-141</u> )
7	1	AC input module, 3 U, 8 HP; AC line filter, 110 ... 250 V <sub>AC</sub> , 50 ... 60 HZ, max. current 10 A
8	2	Radial fan, 36 m <sup>3</sup> /h each, free blowing
9	1	Front panel, front, 3 U, 4 HP, removable, to expand system slot to 8 HP
10	1	Front panel, rear, 3 U, 4 HP
11	1	Cable harness to connect all system components

### ORDER INFORMATION

Height U	Height mm	Width HP	Depth mm	Number of slots	Part no.
4	177	44	275	8	24579-604

### Accessories

Equipment cables	<b>Page 3.38</b>
Front panels	<b>Page 7.5</b>
Modules to mount drive units	<b>Page 8.110</b>
Front panels with handle	<b>Page 7.32</b>
Fan control modules (FCM)	<b>Page 8.108</b>

### Note

- Modified systems available on request
- System in accordance with IEC 60297-3-101, -102, -103; IEEE 1101.1, 1101.10/11); Backplane, conforms to PICMG 2.0 rev. 3.0

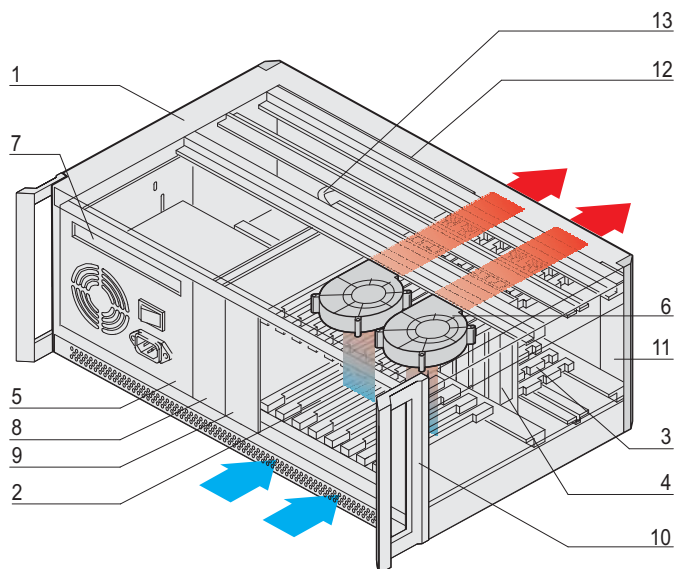


# Systems – CompactPCI case systems

## SYSTEM, 4 U, 8 SLOT, WITH REAR I/O



12304002



12304050



Open Modular  
Computing Specifications

- System for vertical board mounting with board format
  - Front: 3 U, 160 mm deep
  - Rear, rear I/O: 3 U, 80 mm deep
- Backplane
  - 8 slot, 3 U, 32 bit, system slot to right
  - 8 HP wide CPU can be used
- ATX PSU, 300 W
- Heat dissipation by two radial fans, front to rear
- Option to mount a slimline DVD drive and hard disk

### DELIVERY COMPRISES (completely assembled, wired and tested)

Item	Qty	Description
1	1	ratipacPRO-air case, RAL 9006, shielded, perforated air inlet/exhaust openings front and rear; front handles RAL 7016
2	8	Front slot; IEEE guide rails, incl. ESD clips (ESD clips fitted to bottom front), for vertical boards (3 U, 160 mm deep)
3	8	Rear slot; IEEE guide rails, incl. ESD clips (ESD clips fitted to bottom), for vertical rear I/O boards (3 U, 80 mm deep)
4	1	Backplane for 3 U boards; 8 slot, 32 bit (part no. <a href="#">23006-818</a> ); system slot on right, 4 HP (8 HP wide CPU can be used)
5	1	ATX power supply, 300 W, wide range input 100 ... 240 V <sub>AC</sub> , (3.3 V/28 A, 5 V/35 A, 12 V/22 A, -12 V/0.8 A); IEC AC input module with socket; mains switch; fan; 32 HP
6	2	Radial fan, 36 m <sup>3</sup> /h each, free blowing
7	1	Module to accommodate a slimline DVD drive unit
8	1	3 U, 8 HP module to accommodate a hard disk drive
9	1	Front panel, front, 3 U, 8 HP
10	1	Front panel, front, 3 U, 4 HP, removable, to expand system slot to 8 HP
11	1	Front panel, rear, 3 U, 4 HP
12	1	Front panel, rear, 3 U, 48 HP
13	1	Cable harness to connect all system components

### ORDER INFORMATION

Height U	Height mm	Depth mm	Number of slots	Part no.
4	177	275	8	<b>24579-602</b>

#### Accessories

Spare fan unit Air barrier with 2 fitted radial fans, 1 piece	24579-225
Equipment cables	<b>Page 3.38</b>
Front panels	<b>Page 7.5</b>
Modules to mount drive units	<b>Page 8.110</b>
Front panels with handle	<b>Page 7.32</b>
Fan control modules (FCM)	<b>Page 8.108</b>

### Note

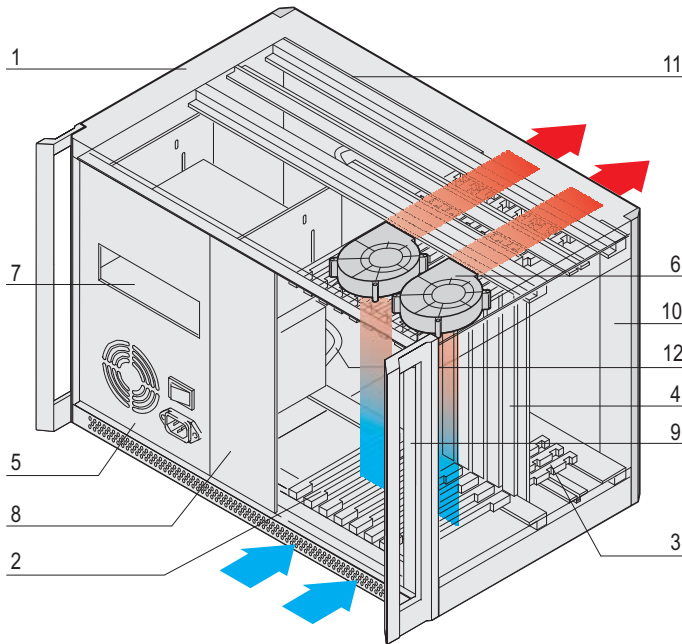
- Modified systems available on request
- System in accordance with IEC 60297-3-101, -102, -103; IEEE 1101.1, 1101.10/11); Backplane, conforms to PICMG 2.0 rev. 3.0

# Systems – CompactPCI case systems

## SYSTEMS, 7 U, 8 SLOT, WITH REAR I/O



12304003



12304051



- System for vertical board mounting with board format
  - Front: 6 U, 160 mm deep
  - Rear, rear I/O: 6 U, 80 mm deep
- Backplane
  - 8 slot, 6 U, 64 bit, system slot to right
  - 8 HP wide CPU can be used
- ATX PSU, 300 W
- Heat dissipation by two radial fans, from front to rear
- Option to mount a 5.25" DVD drive unit

### DELIVERY COMPRISES (completely assembled, wired and tested)

Item	Qty	Description
1	1	ratiopacPRO-air case, RAL 9006, shielded, perforated air inlet/exhaust openings front and rear; front handles RAL 7016
2	8	Front slot; IEEE guide rails, incl. ESD clips (ESD clips fitted to bottom front), for vertical boards (6 U, 160 mm deep)
3	8	Rear slot; IEEE guide rails, incl. ESD clips (ESD clips fitted to bottom), for vertical rear I/O boards (6 U, 80 mm deep)
4	1	Backplane for 6 U boards; 8 slot, 64 bit (part no. <u>23006-868</u> ); system slot on right, 4 HP (8 HP wide CPU can be used)
5	1	ATX power supply, 300 W, wide input range 100 ... 240 V <sub>AC</sub> (3.3 V/28 A, 5 V/35 A, 12 V/22 A, -12 V/0.8 A); IEC-plug; mains switch; fan; 32 HP
6	2	Radial fan, 36 m <sup>3</sup> /h each, free blowing
7	1	Module to accommodate a 5.25" DVD drive
8	1	Front panel, front, 6 U, 16 HP, for fitting a hard disk drive
9	1	Front panel, front, 6 U, 4 HP, removable, to expand width of system slot to 8 HP
10	1	Front panel, rear, 6 U, 4 HP
11	1	Front panel, rear, 6 U, 48 HP
12	1	Cable harness to connect all system components

### ORDER INFORMATION

Height U	Height mm	Depth mm	Number of slots	Part no.
7	310.35	275	8	<b>24579-612</b>

### Accessories

Spare fan unit Air barrier with 2 fitted radial fans, 1 piece	24579-225
Equipment cables	<b>Page 3.38</b>
Front panels	<b>Page 7.5</b>
Modules to mount drive units	<b>Page 8.110</b>
Front panels with handle	<b>Page 7.32</b>
Fan control modules (FCM)	<b>Page 8.108</b>

### Note

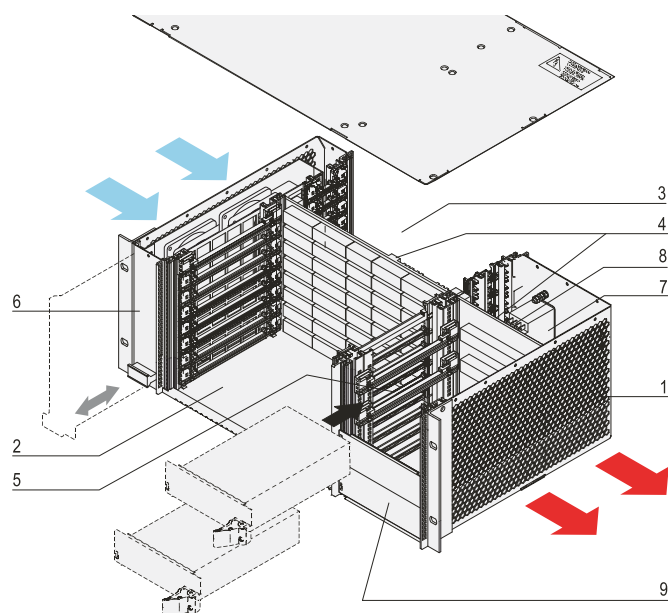
- Modified systems available on request
- System in accordance with IEC 60297-3-101, -102, -103; IEEE 1101.1, 1101.10/11); Backplane, conforms to PICMG 2.0 rev. 3.0

# Systems – CompactPCI subrack systems,

## SYSTEM, 4 U, 8 SLOT, WITH REAR I/O, FOR TELECOMS APPLICATIONS



12306003



12305050



Open Modular  
Computing Specifications

- System for horizontal board mounting with board format
  - Front: 6 U, 160 mm deep
  - Rear, rear I/O: 6 U, 80 mm deep
- Monolithic backplane for (signals and power)
  - 64-bit CompactPCI; PSB (**P**ackage **S**witched **B**ackplane), PICMG 2.16; H.110
  - 8 slot, 6 U, 64 bit CompactPCI (2 fabric/switch slots, 6 node slots H.110), system slot to left
  - Integrated power backplane with 2 x P 47 connectors
- Prepared to accept two 19" CompactPCI PSUs 250 W (3 U, 8 HP)
- Heat dissipation by extractable hot-swap fan unit, from left to right

### DELIVERY COMPRISES (completely assembled, wired and tested)

Item	Qty	Description
1	1	Shielded 19" chassis, St, powder-coated, black, RAL 9005
2	8	Front slot; IEEE guide rails, incl. ESD clips (ESD clips fitted to front right), for horizontal board mounting (6 U, 160 mm deep)
3	8	Rear slot; IEEE guide rails, incl. ESD clips (ESD clips fitted to front right), for horizontal mounting of rear I/O boards (6 U, 80 mm deep)
4	1	Backplane for 6 U boards and voltage supply (2 x P 47 sockets); 64-bit CompactPCI; PSB, 2 fabric/switch slots; 6 node H.110 bus slots; part no. <u>23006-611</u>
5	–	Prepared to accommodate two 19" CompactPCI PSUs (250 W, 3 U, 8 HP), part no. <u>13100-141</u>
6	1	Hot-swap fan unit, 4 fans, each 109 m <sup>3</sup> /h (64 cfm)
7	1	AC input (IEC plug), mains filter module, fuse, mains switch
8	1	Cable harness to connect all system components
9	2	Front panel front, 3 U, 8 HP

### ORDER INFORMATION

Height	Height	Depth	Number of	Part no.
U	mm	mm	slots	
4	177	275	8	<b>24579-135</b>

#### Accessories

19" compatible power supply, 250 W, 3 U, 8 HP Please order PSU separately, see page 9.24	<b>13100-141</b>
Fan tray for black systems, to ventilate rear I/O space 7 fans	24579-112
Equipment cables	<b>Page 3.38</b>
Front panels	<b>Page 7.5</b>
Modules to mount drive units	<b>Page 8.110</b>
Front panels with handle	<b>Page 7.32</b>
Fan control modules (FCM)	<b>Page 8.108</b>

### Note

- Modified systems available on request
- System in accordance with IEC 60297-3-101, -102, -103; IEEE 1101.1, 1101.10/11); Backplane, conforms to PICMG 2.16

# Systems – CompactPCI subrack systems,

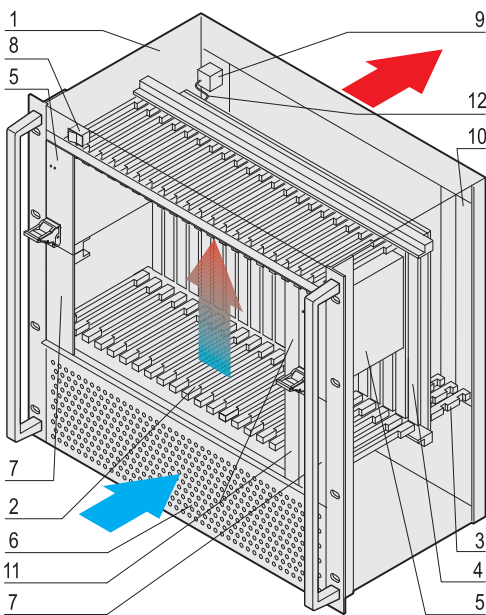
## SYSTEM, 10 U, 16 SLOT, WITH REAR I/O, FOR TELECOMS APPLICATIONS



- System for vertical board mounting with board format
  - Front: 6 U, 160 mm deep
  - Rear, rear I/O: 6 U, 80 mm deep
- Backplane, PSB (**p**ackage **s**witched **b**ackplane), PICMG 2.16
  - 16-slot, 6 U, 64 bit (2 fabric/switch slots, 14 node slots)
- Two 19" CompactPCI power supplies, 250 W (3 U, 8 HP), prepared for installation of two further 19" compatible PSUs
- Heat dissipation by fan module, from front to rear
- Prepared for system monitoring with a chassis monitoring module (CMM)

### DELIVERY COMPRISES (completely assembled, wired and tested)

Item	Qty	Description
1	1	Shielded 19" chassis, Al; perforated front panel to front and rear, 19" bracket in RAL 9006; remaining parts passivated in aluminium; front handles (RAL 9005)
2	16	Front slot; IEEE guide rails, incl. ESD clips (ESD clips fitted to bottom front), for vertical boards (6 U, 160 mm deep)
3	16	Rear slot; IEEE guide rails, incl. ESD clips (ESD clips fitted to front bottom), for vertical mounting of rear I/O boards (6 U, 80 mm deep)
4	1	PSB backplane for 6 U boards, 64 bit, 2 fabric/switch slots, 14 node slots, 2 CompactPCI segments, system slot left and right; part no. <a href="#">23006-610</a>
5	2	19" compatible power supply, 250 W (3 U, 8 HP); part no. <a href="#">13100-141</a>
6	1	Extractable fan unit with filter mat, 3 fans, 24 V <sub>DC</sub> , 270 m <sup>3</sup> /h (160 cfm)
7	2	Front panel, front, 3 U, 8 HP, space for two further power supplies
8	1	DC switch on front
9	1	AC input (IEC connector), mains filter module, fuse, 6 U, 8 HP
10	1	Front panel, rear, 6 U, 8 HP
11	2	Front panel, front, 3 U, 4 HP, cover for optional CMM module space
12	1	Cable harness to connect all system components



12302005

12303058

### ORDER INFORMATION

Height U	Height mm	Depth mm	Number of slots	Part no.
10	443.7	275	16	<b>24579-028</b>

#### Accessories

19" compatible power supply, 250 W, 3 U, 8 HP Please order PSU separately, see page 9.24	<b>13100-141</b>
Chassis monitoring module (CMM) 3 U, 4 HP, 160 mm deep, 1 piece Please order PSU separately, see page 8.109	23207-022
Equipment cables	<b>Page 3.38</b>
Front panels	<b>Page 7.5</b>
Modules to mount drive units	<b>Page 8.110</b>
Front panels with handle	<b>Page 7.32</b>
Fan control modules (FCM)	<b>Page 8.108</b>

### Note

- Modified systems available on request
- System in accordance with IEC 60297-3-101, -102, -103; IEEE 1101.1, 1101.10/11; Backplane, conforms to PICMG 2.16



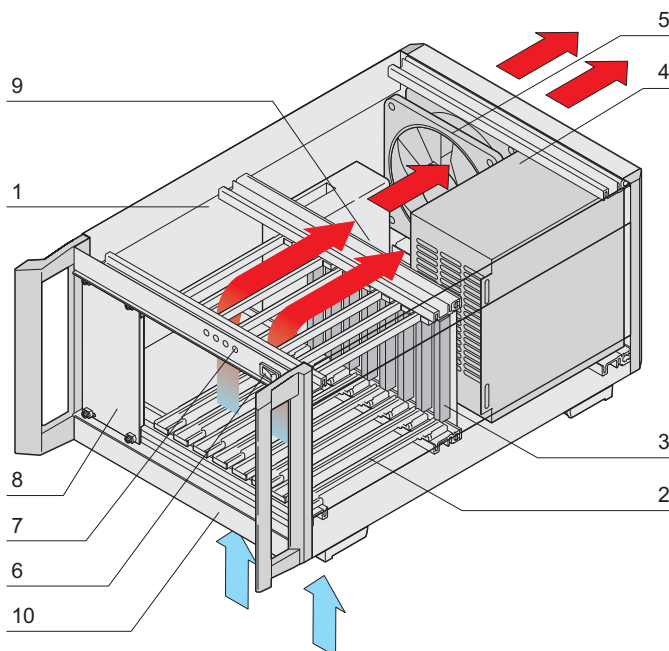


# Systems – PXI case system

## PXI SYSTEM, 4 U, 8 SLOT, 44 HP



12307002



12307050

- PXI desktop chassis, 4 U, 44 HP
- PXI backplane, 8 slot, 3 HE, 64 bit, system slot left
- Heat dissipation to rear from below
- ATX power supply 400 W, wide-range AC input with power switch on the back of the device
- Backplane with clock switching internal / external

### DELIVERY INCLUDES (completely assembled, wired and tested)

Item	Qty	Description
1	1	ratiopacPRO-air case, RAL 9006, with 19" mounting brackets and handles RAL 7016, 4 U, 44 HP; shielded; perforated base plate; tip-up feet
2	8	Front slots, with 2 IEEE guide rails each, incl. ESD clips (ESD clips assembled at bottom front), for vertical boards (3 U, 160 mm deep)
3	1	Backplane for 3 U boards; 8 slot, 64 bit (part no. 23006-578); System slot on the left
4	1	Power supply, ATX (PS2), 400 W, wide range input 100 ... 240 V <sub>AC</sub> ; Output 3.3 V/28 A, 5 V/40 A, 12 V/12 A, -12 V/ 1 A; IEC AC input module with socket; AC mains switch; Fan
5	1	Fan, 170 m <sup>3</sup> /h (100 cfm) assembled on rear panel
6	1	Mains switch, DC, front
7	1	Voltage display
8	1	Front panel, 10 U
9	1	Cable harness to connect all system components
10	1	Filter mat and holder

### ORDER INFORMATION

Height	Width	Depth	Number of	Qty/PU	Part no.
U	HP	mm	slots	piece	
4	44	355	8	1	<b>14579-008</b>

### NOTE

- System in accordance with IEC 60297-3-101, -102, -103; IEEE 1101.1, 1101.10/11); backplane conforms to PICMG rev. 3.0 and PXI 2.0
- Modified systems available on request

# Systems – PXI-Express case system

## PXI-EXPRESS SYSTEM, 4 U, 8 SLOT, 44 HP

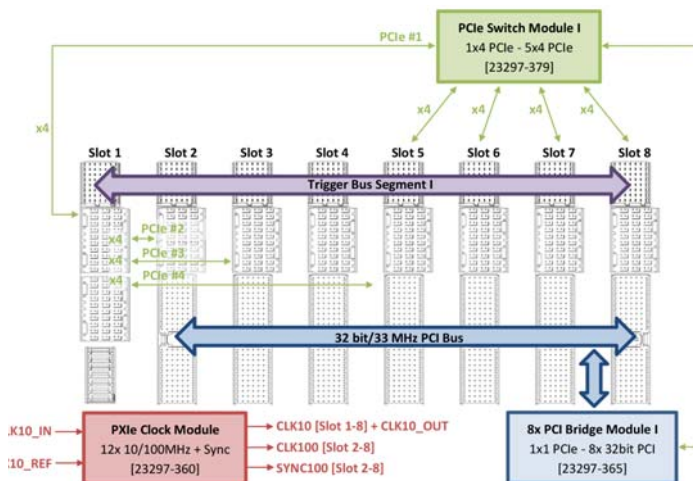


12306001



12318002

Rear view



12318050

Backplane topology

- PXI Express desktop chassis, 4 U, 44 HP
- 1 PXIe System slot and 7 Hybrid slots
- Ultra-high performance Gen 3 PCIe switching with a default four-link (4x4) system slot
- Powerful cooling concept with low fan noise, 50 W per slot @ 15K temperature increase
- Heat dissipation to rear from below with temperature controlled fans
- Wide range AC input with mains switch on the rear side, power push bottom on the front
- Rear panel external 10 MHz clock inputs/outputs

### DELIVERY INCLUDES (completely assembled, wired and tested)

Item	Qty	Description
1	1	RatiopacPRO chassis with handles; 4 U, 44 HP, 315 mm deep; shielded; tip-up feet
2	8	Front slot; IEEE guide rails, incl. ESD clips (ESD clips assembled at bottom front), for vertical boards (3 U, 160 mm deep)
3	1	PXIe Backplane for 3 U boards; 8 slot; system slot on the left
4	1	PCIe 24 Lane Switch Module, PCIe Gen 3, mounted on backplane backside
5	1	PCIe-PCI Bridge Module, PCIe x1 to 32-bit 33 MHz, mounted on backplane backside
6	1	PXI Express Clock Module, PXI-1 & PXI-5 CLKs, mounted on backplane backside
7	1	Power supply 400 W; wide range input 100 ... 240 V <sub>AC</sub> ; output: 3.3 V/ 25 A, 5 V/25 A, 12 V/15 A, -12 V/2 A; 5 V aux/1 A
8	2	80 mm fans with 258 m³/h (152.3 cfm) each
9	1	Fan Control module, FCM2
10	1	Mains inlet connector with switch, filter and fuse
11	1	Power push button
12	1	External 10 MHz REF clock output via BNC connector
13	1	Optional 10 MHz REF clock source via BNC connector
14	1	Cable harness to connect all system components

### ORDER INFORMATION

Height U	Width HP	Depth mm	Number of slots	Qty/PU piece	Part no.
4	44	315	8	1	<b>14579-030</b>

### TECHNICAL DATA

Ambient temperature [°C]	0 °C ... 50 °C
Input voltage range [V <sub>AC</sub> ]	100 ... 240 V <sub>AC</sub> at 50/60 Hz
Sound pressure level [dB(A)]	21 dBA (auto fan at 25 °C), 48 dBA (max fan speed)

### NOTE

- System in accordance with IEC 60297-3-101, -102, -103; IEEE 1101.1, 1101.10/11); backplane conforms to PICMG rev. 3.0 and PXI-5
- Modified systems available on request

## Systems – PXI-Express case system

# Systems – ServicePLUS

## APPLICATION EXAMPLES



- Hybrid system, modification of a MicroTCA single-module board cage into a 3 U chassis to DIN EN 60297 <sup>12908007</sup>



- MicroTCA system, 1 U for 6 single mid-size AMC modules; power supply, increased air inlet and exhaust area with inwardly curved side panels <sup>12908005</sup>



- MicroTCA chassis with hot-swap fan unit and power supply <sup>12909001</sup>



- CompactPCI chassis with hot-swap fan unit and custom finishing <sup>12309002</sup>



- CompactPCI chassis with 48 V<sub>DC</sub> power supply <sup>12309001</sup>



- 2 slot, 2 U AdvancedTCA chassis with custom colour <sup>12709003</sup>



# Systems – ServicePLUS

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