Introduction

Subrack Types

Designed in accordance with EIA standard RS-310, Vector subracks and modules offer versatility within a 19" rackmount format. All racks are adjustable in both height and depth, offering standard product solutions for standard and custom requirements.

All Subrack sizes are compatible with Vector prototyping boards (see Vectorbord section), and can accommodate other sizes as well. Several card guide types (metal or plastic, snap-in, rivet, or screw-down) are available.

Cages VectorPak® Subrack and Module Subrack Types by Part Number Stem: CCK - Card Cage frame kit. Kits with no card guides use 'F' in number (e.g., CCK13F/90). Other kits have 21 pair of guides included: 'S'= plastic snap-in type e.g., CCK13S/90; 'M' or 'P'= metal or plastic, fastened with hardware. Guide spacing is .25". CCA - Same as CCK version, but all are assembled with guides. CMA - Assembled Module Subrack for EFP modules. Modules available separately. ALCENCE A CCM - Assembled rack for Card Mount Modules (CM type). Modules available separately. For Rack Accessories see page 41A For Desktop outer enclosure, see page 42 New Item: CCK19F/90 (For max 11.5" x 13.5" cards) Subrack Kits (CCK) Assembled Subracks Assembled Module Subracks (CMA) with Continuous Guide Plate Assembled Subracks Assembled Card Mount with Card Guides (CCA) Subracks (CCM) <u>CCK</u> <u>13</u> <u>s</u> <u>/90</u> Model Type Note: /90 denotes side walls with CCK - Kit only with snap-in card guides .200" slot width CCA - Factory assembled version of On CCA, K frames only also CCK with snap-in card guides denotes snap-in version CCM - Factory assembled card mount cage with snap-in card guides CMA - Assembled module cage with module guides Series Number (Max. Card Size) CCK Type 12 - 3U (5.25") X 19" x 9" (4.5" x 4.5") F - Frame only, snap-in plastic, 21 pair Card Guides included metal or plastic screw-down 13 - 3U (5.25") X 19" X 9" (4.5" x 6.5") card guides available separately 21 pair Card Guides included C - Continuous guide plate, 14 - 3U (5.25") X 19" X 12" (4.5" x 9.6") assembled cage only 16 - 3U (5.25") X 19" X 15.75" (4.5" x 13.5") S - Sanp-in guides included 15 - 4U (7.00") X 19" X 12" (6.25" x 9.6") M - Screw-in Aluminum card guides 20 - 4U (7.00") X 19" X 15.75" (6.25" x 13.5") P - Screw-in plastic card guides 17 - 5U (8.75") X 19" X 12" (8.00" x 11.0") 18 - 6U (10.50") X 19" X 15.75" (9.75" x 13.5") 19 - 7U (12.25") X 19" X 15.75" (11.5" x 13.5") CMA 13 or 14 - XX/90 16 - Designed for 1.6" wide EFP modules 100 -7U (12.25") X 19" X 9.00" (11.5" x 7") 20 - Designed for 2.0" wide EFP modules 30 - Designed for 3.0" wide EFP modules

For Front Door Panels and Covers see page 41A 11115 Vanowen St., North Hollywood, CA 91605 Phone (818) 985-8208



Subracks - VectorPak[®] Assembled Subracks with Card Guides (CCA) Assembled Cardmount Subracks (CCM)



- Accepts CM45A65 Card Mount Modules
- · Card guide positions are variable at .25" increments
- Assembled module rack plastic snap-in install on 1" centers
- Different width modules may be inserted interchangeable without guide changes
- Card mount modules (CM Series) with 1" to 4" widths
- For 3U and 4U applications
- Adjustable rear struts for connection of backplanes
 (struts available separately)
- .062" thick aluminum plates are inserted into guide; PC Card is attached firmly to plate
- Front panels on card mount may be removed for custom punching, plating and printing
- Modules may be secured by thumb screws (SC10-3A, 10-32 included)
- For Desktop outer enclosure, see page 42

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Modules	-w-

Cardmount Subracks

Card Mount Modules

	Part No.	Hei	ight	Width	Length			Module	Card
		H1	H2	W	L	в	С	Rack	Guide
	CM45A65-1	5.25"	4.5"	1.0"	6.57"	3.8"	3.6"	CCM13S	CG2-65
	CM45A65-2	5.25"	4.5"	2.0"	6.57"	3.8"	3.6"	CCM13S	CG2-65
	CM45A65-4	5.25"	4.5"	4.0"	6.57"	3.8"	3.6"	CCM13S	CG2-65
	CM45B95-1	5.25"	4.5"	1.0"	9.57"	3.8"	6.6"	CCM14S	CG2-95
	CM45B95-2	5.25"	4.5"	2.0"	9.57"	3.8"	6.6"	CCM14S	CG2-95
	CM45B95-4	5.25"	4.5"	4.0"	9.57"	3.8"	3.6"	CCM14S	CG2-95
	CM62F95-1	7.0"	6.25"	1.0"	9.57"	5.5"	6.6"	CCM15S	CG2-95
	CM62F95-2	7.0"	6.25"	2.0"	9.57"	5.5"	6.6"	CCM15S	CG2-95
	CM62F95-4	7.0"	6.25"	4.0"	9.57"	5.5"	6.6"	CCM15S	CG2-95
	CM90F95-1	10.5"	9.00"	1.0"	9.57"	7.6"	6.6"	CCM18S	CG2-95
)	CM90F95-2	10.5"	9.00"	2.0"	9.57"	7.6"	6.6"	CCM18S	CG2-95
'	CM90F95-4	10.5"	9.00"	4.0"	9.57"	7.6"	6.6"	CCM18S	CG2-95

Card Guides

Free Standing Connector Mounted Card Guides

Secure connection, rugged support of 0.062" thick, free standing circuit boards. For applications in which space is at a premium. Several sizes and styles available. Aluminum alloy construction. Mounting hardware included (HD55 Hardware Kit)







Typical BR27 mounting

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(Ordering Table see page 37)

A Fine Technology Group Specifications subject to change without notice

For Modules

Module Subracks



Module Subrack shown with eight 2" wide EFP Modules (sold separately)

- 1.6", 2.0" and 3.0" evenly spaced modules are accepted
- Side Panels -double screw attachment to wide TSW \ (1.75") metal strut
- · Rear Struts-adjustable in width and height-BR16-1 bracket
- Special aluminum extruded case guides and spacers provide secure mounting for modules
- Standard 19" width. Other widths available by special order.
- · Filler panels available where mixing widths creates gaps
- Aluminum construction
- · Paint or color anodize options available

CMA Module Racks

These cages provide attractive, sturdy, and mechanically excellent housing to enclose electronic assemblies.

These units have the benefits and features of custom enclosures without the expense.

EFP modules feature aluminum extruded sides to accept PC cards. Extended front panels on modules allow thumb screw locking of module to subrack for easy insertion and extraction. The extended front panel also provides an attractive appearance.

Side panels fasten to sturdy Vector TSW model (1.75" wide) Struts with two screws. Subrack models accept widths of 1.6", 2.0", and 3.0" EFP modules; 4.5" module optional. Rear struts are adjustable in width and height. (Ordering Table see page 37)



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- 2" EFP Module with HA11 Handle
- Extended front panels provide thumb screw mounting & flush fit from module to module & with strut line.
- Modules provide shielding; H.F. shielding optional
- Front panels may be customized -cutouts, print ing & color.
- All covers have locking detent; slides out of groove when released
- · Supplied in Kit form
- Modules with 6.5" depth accept 4.5" x 6.5" cards
- Modules with 9.7" depth accept 4.5" x 9.6" cards

For Side Panels & Mounting Hardware see page 41B



	W2	H1	H2	Full Rear Panel Piece Parts			
L W1				Front	Rear	F	
				Panel#	Cover	Cutouts	
.5" 1.65"	1.31"	5.22"	4.62	FP16-52	BP13-4	BP13-4F	
.6" 1.65"	1.31"	5.22"	4.62"	FP16-52	BP13-4	BP13-4F	
.5" 2.05"	1.71"	5.22"	4.62"	FP2A52	BP17-4	BP17-4F	
.6" 2.05"	1.71"	5.22"	4.62"	FP2A52	BP17-4	BP17-4F	
.5" 3.05"	2.71"	5.22"	4.62"	FP3A52	BP27-4	BP27-4F	
.6" 3.05"	2.71"	5.22"	4.62"	FP3A52	BP27-4	BP27-4F	
.5" 4.55"	4.21"	5.22"	4.62"	FP3A52	BP27-4	BP27-4F	
.6" 4.55"	4.21"	5.22"	4.62"	FP45A52	BP42-4	BP42-4F	
هـــــــــــــــــــــــــــــــــــــ	-	- 1.60) — — —				
				- 3.00			
					- SEE DETAIL		
					1		
	.5" 1.65" .6" 1.65" .5" 2.05" .6" 2.05" .5" 3.05" .6" 3.05" .5" 4.55"	5" 1.65" 1.31" 6" 1.65" 1.31" 5" 2.05" 1.71" 6" 2.05" 1.71" 5" 3.05" 2.71" 6" 3.05" 2.71" .5" 4.55" 4.21" 6" 4.55" 4.21"	5" 1.65" 1.31" 5.22" 6" 1.65" 1.31" 5.22" 5" 2.05" 1.71" 5.22" 6" 2.05" 1.71" 5.22" .5" 3.05" 2.71" 5.22" .6" 3.05" 2.71" 5.22" .5" 4.55" 4.21" 5.22" 6" 4.55" 4.21" 5.22"	5" 1.65" 1.31" 5.22" 4.62 6" 1.65" 1.31" 5.22" 4.62" 5" 2.05" 1.71" 5.22" 4.62" 6" 2.05" 1.71" 5.22" 4.62" 5" 3.05" 2.71" 5.22" 4.62" 6" 3.05" 2.71" 5.22" 4.62" 6" 3.05" 4.21" 5.22" 4.62" 6" 3.05" 4.21" 5.22" 4.62" 6" 4.55" 4.21" 5.22" 4.62"	L W1 W2 H1 H2 Front Panel# 5" 1.65" 1.31" 5.22" 4.62 FP16-52 6" 1.65" 1.31" 5.22" 4.62" FP16-52 .6" 2.05" 1.71" 5.22" 4.62" FP2A52 .6" 2.05" 1.71" 5.22" 4.62" FP2A52 .6" 3.05" 2.71" 5.22" 4.62" FP3A52 .6" 3.05" 2.71" 5.22" 4.62" FP3A52 .6" 4.55" 4.21" 5.22" 4.62" FP3A52 .6" 4.55" 4.21" 5.22" 4.62" FP3A52 .6" 4.55" 4.21" 5.22" 4.62" FP3A52	L W1 W2 H1 H2 Front Panel# Cover 5" 1.65" 1.31" 5.22" 4.62 FP16-52 BP13-4 6" 1.65" 1.31" 5.22" 4.62" FP16-52 BP13-4 6" 2.05" 1.71" 5.22" 4.62" FP2A52 BP17-4 6" 2.05" 1.71" 5.22" 4.62" FP2A52 BP17-4 6" 3.05" 2.71" 5.22" 4.62" FP3A52 BP27-4 6" 3.05" 2.71" 5.22" 4.62" FP3A52 BP27-4 6" 4.55" 4.21" 5.20" 4.62" FP3A52 BP27-4 6" 4.55" 4.21" 4.50" FP3A52 BP27-4 6" 4.55" 4.21" 4.50" FP3A52 BP27-4 6" 4.55" 4.50"	

Pkg 2



Handle

P/N HA11/2

Card Guides

Subracks - VectorPak[®]

Card Guides

High quality card guides feature tapered slots for easy insertion. Snap-in nylon models provide easy installation and removal without tools, and can be positioned at 0.25" increments when used with Vector-Pak T-struts (TS169-6/90). Screw-mounted models (installation hardware included) are available in metal or plastic and provide variable positioning along entire length of strut. Holes for mounting guides to struts are based on center-to-center multiples of 0.75". All materials are flame retardant.



Metal or plastic screw down card guides attach with SC4-27/25 flat head screw and NT4-7PA square nut





Card Guide Ordering Table

Part No.	Туре	Length	Centers	Card Length	Application
CG2-45P CG2-45S CG2-50P CG2-65M CG2-65P CG2-65S CG2-80M CG2-80P	Plastic, Screw Nylon, Snap-in Plastic, Screw Metal, Screw Plastic, Screw Nylon, Snap-in Metal, Screw	2.89" 3.17" 4.36" 5.42" 5.42" 5.42" 6.64"	2.25" 2.25" 3.75" 4.50" 4.50" 4.50" 6.00"	4.50" 4.50" 5.00 6.50" 6.50" 6.50" 8.00"	Subrack series 12, 13, 14, 17, 18 & 100 and Vector P series sidewalls
CG2-80P CG2-80S CG2-95M CG2-95P CG2-95S CG2-135M	Plastic, Screw Nylon, Snap-in Metal, Screw Plastic, Screw Nylon, Snap-in Metal, Screw	6.64" 6.93" 8.14" 8.14" 8.43" 13.19"	6.00" 6.00" 7.50" 7.50" 7.50" 12.55"	8.00" 8.00" 9.50" 9.50" 9.50" 13.50"	Subrack series 14, 15, 17, 18 and 100 and Vector P series sidewalls ending in 119 or 156 CCA19

Packages of 12 ea. Screw-down types include installation hardware and are available in custom lengths on request.



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