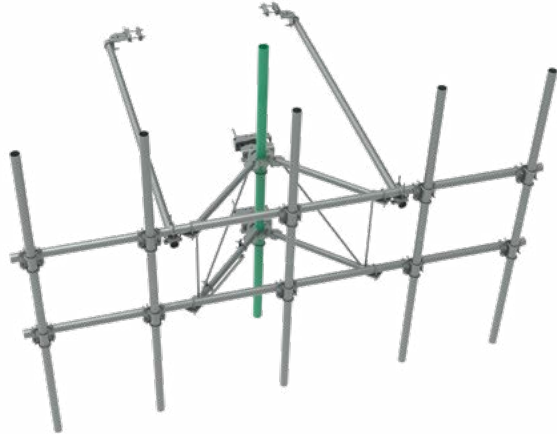
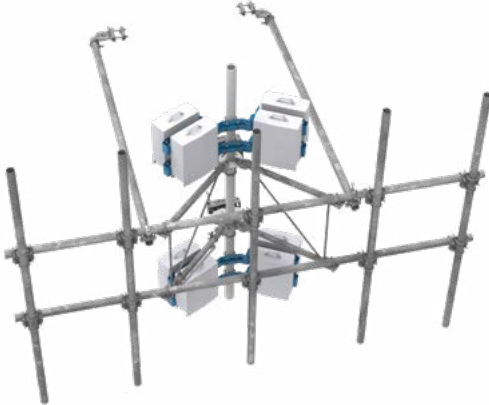

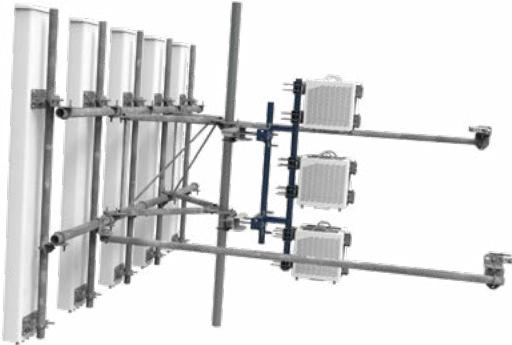
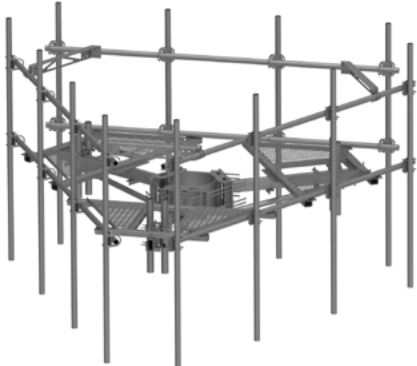


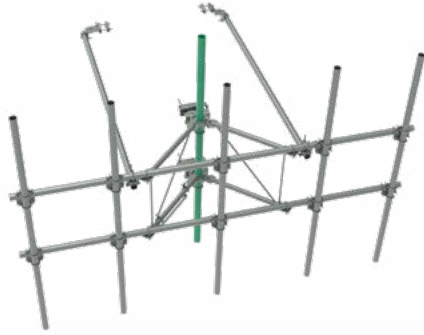
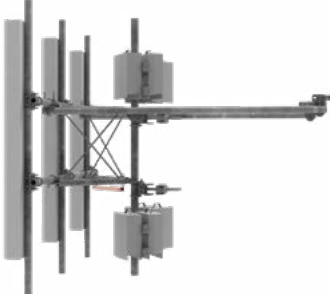


## Smarter engineering for PIM-free tower tops


Passive intermodulation (PIM) presents a constant challenge to cellular network performance. CommScope created new antenna mounting solutions that greatly reduce PIM arising between remote radio units (RRUs) and base station antennas (BSAs) on the tower—and the resulting PIM savings are a real game-changer, especially for higher-power radios.

RHDX SPINE Extension	APEX RRU Mount	RHDXL PIM Optimized Sector Frame
	 <ul style="list-style-type: none"> <li>• APEX mounts up to 8 Radios on RHDX &amp; RHDXL Spines to move radios away from antennas</li> </ul>	 <ul style="list-style-type: none"> <li>• All the Features and Benefits of the RHDX Extended Spine PLUS PIM Optimized Frame to increase antenna-to-antenna spacing</li> </ul>
Features	CORE RRU Saddle Mount	MP-PP PIM Optimized Platform
<ul style="list-style-type: none"> <li>• Extended spine for SFG23 RHDX mounts that increase RRU mounting capabilities</li> <li>• Decreased PIM from radio relocation</li> <li>• Increased versatility and stability</li> <li>• Updated frame provides higher loading</li> <li>• More RRU mounting available, reducing need for additional mounts</li> <li>• Better load management</li> <li>• Less structure stress</li> <li>• Available as tower &amp; monopole sector frames</li> <li>• Can be used in combination with APEX and CORE RRU mounts</li> </ul>	 <ul style="list-style-type: none"> <li>• CORE internal Tower mount attaches to rear of RHDX and RHDXL Saddle mounts</li> </ul>	 <ul style="list-style-type: none"> <li>• PIM Optimized Monopole Platform with adjustable single-point tower connection that provides increased antenna spacing &amp; enables RRU Mounting on Custom Triangle</li> </ul>

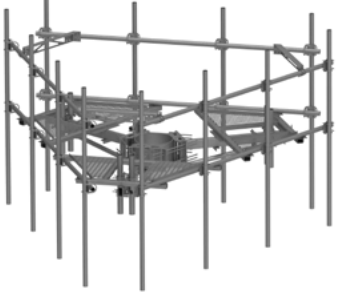
## RHDX Extended Spine Sector Frames

RHDX SPINE Extension	Description	Antenna Pipes Included	Attachment Hardware	CommScope Material ID
  <ul style="list-style-type: none"> <li>• Extended spine for SFG23 RHDX mounts that increase RRU mounting capabilities</li> <li>• Decreased PIM from radio relocation</li> <li>• Increased versatility and stability</li> <li>• Updated frame provides higher loading</li> <li>• More RRU mounting available, reducing need for additional mounts</li> <li>• Better load management</li> <li>• Less structure stress</li> <li>• Available as tower &amp; monopole sector frames</li> <li>• Can be used in combination with APEX and CORE RRU mounts</li> </ul>	RHDX Extended Spine Tower Sector Frame Single Sector 12' 6" Face	None (4) 2-7/8" x 96" (4) 2-7/8" x 120" (5) 2-7/8" x 120" (4) 2-7/8" x 126"	Tapered Clamps Up to 8" Tower Leg	<a href="#">SFG23RHDX-12-B</a> <a href="#">SFG23RHDX-12-4-96</a> <a href="#">SFG23RHDX12-4-H10</a> <a href="#">SFG23RHDX12-5-WLL</a> <a href="#">SFG23RHDX-12-4-126</a>
	RHDX Extended Spine Tower Sector Frame Single Sector 14' 6" Face	None (4) 2-7/8" x 96" (4) 2-7/8" x 120" (5) 2-7/8" x 120" (4) 2-7/8" x 120" (5) 2-7/8" x 120" (4) 2-7/8" x 126"	Tapered Clamps Up to 8" Tower Leg	<a href="#">SFG23RHDX-14-B</a> <a href="#">SFG23RHDX-14-4-96</a> <a href="#">SFG23RHDX-14-4-120</a> <a href="#">SFG23RHDX-14-5-120</a> <a href="#">SFG23RHDX14-4-H10</a> <a href="#">SFG23RHDX14-5-WLL</a> <a href="#">SFG23RHDX-14-4-126</a>
	RHDX Extended Spine Monopole Sector Frame Three Sectors 12' 6" Face	None (12) 2-7/8" x 96" (15) 2-7/8" x 120" (12) 2-7/8" x 126"	Double Ring Mount Kit 15" to 50" Monopoles	<a href="#">MCG23RHDX-12MB</a> <a href="#">MCG23RHDX-12M1296</a> <a href="#">MCG23RHDX-12M15120</a> <a href="#">MCG23RHDX-12M12126</a>
	RHDX Extended Spine Monopole Sector Frame Three Sectors 14' 6" Face	None (12) 2-7/8" x 96" (12) 2-7/8" x 120" (15) 2-7/8" x 120" (12) 2-7/8" x 126"	Double Ring Mount Kit 15" to 50" Monopoles	<a href="#">MCG23RHDX-14MB</a> <a href="#">MCG23RHDX-14M1296</a> <a href="#">MCG23RHDX-14M12120</a> <a href="#">MCG23RHDX-14M15120</a> <a href="#">MCG23RHDX-14M12126</a>

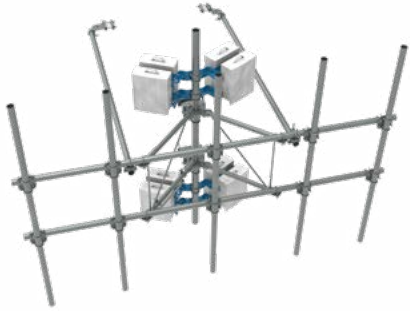
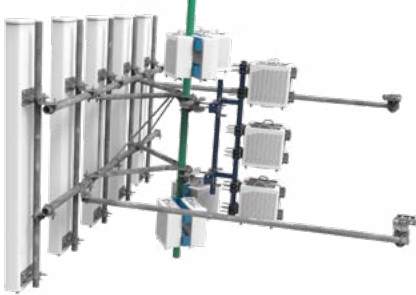
# RHDXL Extended Spine and Frame Sector Frames

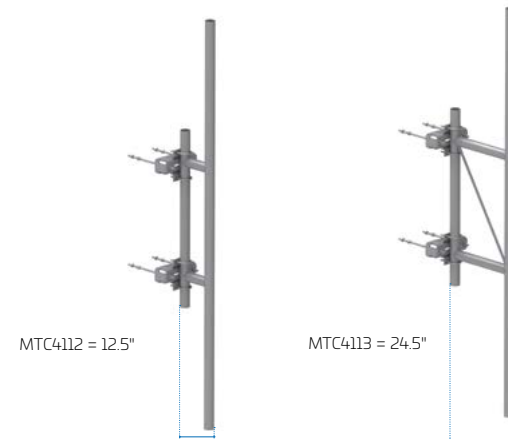
RHDXL PIM Optimized Sector Frame	Description	Antenna Pipes Included	Attachment Hardware	CommScope Material ID
 <ul style="list-style-type: none"> <li>• All the Features and Benefits of the RHDX Extended Spine PLUS PIM Optimized Frame</li> <li>• New RHDXL Extended Frame enables increased Antenna-to-Antenna Spacing</li> <li>• Extended Spine relocates radios &amp; Extended Frame increases distance between antennas to combine forces &amp; mitigate PIM in the Hi-risk zone around antennas</li> </ul>	RHDXL PIM Optimized Tower Sector Frame Single Sector 11' Face	(3) 2-7/8" x 96"	Tapered Clamps Up to 8" Tower Leg	SFG23RHDXL-11-B
				SFG23RHDXL11-3-96
		(3) 2-7/8" x 126"		SFG23RHDXL11-3-126
	RHDXL PIM Optimized Tower Sector Frame Single Sector 13' Face	(4) 2-7/8" x 96"	Tapered Clamps Up to 8" Tower Leg	SFG23RHDXL-13-B
		(4) 2-7/8" x 126"		SFG23RHDXL13-4-96
	RHDXL PIM Optimized Tower Sector Frame Single Sector 14' 6" Face	None	Tapered Clamps Up to 8" Tower Leg	SFG23RHDXL-14-B
	RHDXL PIM Optimized Tower Sector Frame Single Sector 15' Face	(4) 2-7/8" x 96"	Tapered Clamps Up to 8" Tower Leg	SFG23RHDXL-15-B
		(5) 2-7/8" x 96"		SFG23RHDXL15-4-96
		(4) 2-7/8" x 126"	SFG23RHDXL15-5-96	
		(5) 2-7/8" x 126"	SFG23RHDXL15-4-126	
			SFG23RHDXL15-5-126	

## MP-PP Monopole Platforms

MP-PP PIM Optimized Platform	Description	Antenna Pipes Included	Attachment Hardware	CommScope Material ID
 <ul style="list-style-type: none"> <li>• PIM Optimized Monopole Platform with wider face enables increased antenna-to-antenna spacing and no kicker required</li> <li>• Innovative new Adjustable Triangle design enables RRU Mounting to relocate radios away from antennas &amp; ensure spacing between adjacent sectors is fixed regardless of monopole diameter</li> </ul>	MP-PP PIM Optimized Monopole Platform Three Sectors 13' Face	None  (12) 2-7/8" x 96"  (12) 2-7/8" x 126"	Ring Mount Kit 15" to 50" Monopoles	<a href="#">MP-PP13M-B</a>  <a href="#">MP-PP13M-12C-96</a>  <a href="#">MP-PP13M-12C-126</a>
	MP-PP PIM Optimized Monopole Platform Three Sectors 15' Face	None  (12) 2-7/8" x 96"  (12) 2-7/8" x 126"	Ring Mount Kit 15" to 50" Monopoles	<a href="#">MP-PP15M-B</a>  <a href="#">MP-PP15M-12C-96</a>  <a href="#">MP-PP15M-12C-126</a>
		(15) 2-7/8" x 96"		<a href="#">MP-PP15M-15C-126</a>
		(15) 2-7/8" x 126"		<a href="#">MP-PP15M-15C-126</a>

# RRU Mounting Solutions

APEX RRU Mount		CORE RRU Saddle Mount	
 <ul style="list-style-type: none"> <li>• APEX mounts up to 8 Radios on RHDX &amp; RHDXL Spines to move radios away from antennas</li> <li>• Angled RRU brackets for stronger, more versatile mounting</li> <li>• Decreased PIM from radio relocation (pulls radio from near field)</li> <li>• Increased equipment and mount stability (reduces potential for vibration induced PIM)</li> <li>• Decreased antenna pipe loading</li> <li>• Compatible with towers and monopoles</li> <li>• Single radio location for faster assembly</li> <li>• Increased radio capacity</li> </ul>		 <ul style="list-style-type: none"> <li>• CORE internal Tower mount attaches to rear of RHDX and RHDXL Saddle mounts</li> <li>• Internal tower RRU mount</li> <li>• Decreased PIM from radio relocation</li> <li>• Increased mount stability</li> <li>• Decreased face loading</li> <li>• Increased mount versatility without the need for a new RRU mount</li> <li>• Requires use of RR-FA2 RRU brackets</li> </ul>	
Part Number	Description	Part Number	Description
RR-APEX4	Radio Mount, Apex, 2 mntg brackets, 4 Radios/Mount	MTC4112	Radio Mount Spine and Clamp, 12 in stand off, 2-3/8" OD x 70" in Mounting Pipe
		MTC4113	Radio Mount Spine and Clamp, 24 in stand off, 2-3/8" OD x 70" in Mounting Pipe
		RR-FA2	Radio Mount, Back to Back, Low Profile, Quick Connect, 2 Radios/Mount



commscope.com

Visit our website or contact your local CommScope representative for more information.

© 2024 CommScope, Inc. All rights reserved. CommScope, Inc. All rights reserved. All trademarks identified by ™ or ® are trademarks or registered trademarks in the US and may be registered in other countries. All product names, trademarks and registered trademarks are property of their respective owners. This document is for planning purposes only and is not intended to modify or supplement any specifications or warranties relating to CommScope products or services.