






# Rajant Solution Matrix

	Breadcrumb XL	Breadcrumb XLR	Breadcrumb SE	Breadcrumb ME	Breadcrumb ME2	Breadcrumb LX
						
	Deployable Mobile Mesh Ap	Rack Mount Mobile Mesh AP	Portable Mobile Mesh AP	Portable Mobile Mesh AP	Portable Mobile Mesh AP	Deployable Mobile Mesh AP
LAN/WAN	1/1	1/1	1/1	1/1	1/1	2/2
Radios	2	2	2	1 or 2	1	2 or 3
Radio 1 RF/Tx Power	AP + mesh 802.11b 27dBm		AP + mesh 802.11b 24dBm		AP + mesh 802.11b/g 26dBm	AP + mesh 802.11b/g* 28dBm
Radio 2 RF/Tx Power	AP + mesh 802.11b 27dBm		AP + mesh 802.11b 24dBm		None	AP + mesh 802.11a* 28dBm
Frequencies	2.4 GHz	2.4 GHz	2.4 GHz	2.4 GHz	2.4 GHz	2.4GHz,5.8GHz (4.9GHz, 900MHz)*
Max Throughput	11 Mbps	11 Mbps	11 Mbps	11 Mbps (2 Radio version)	24 Mbps	40 Mbps
Antennas	1 External		2 Internal 1 External	2 External		3 External
FIPS 140-2	No	No	No	No	Yes, in IUT (10/2008 est.)	Compatible, Future Validation
NSA-1	Option with Harris SecNet11			No	Can be used w/Harris SecNet54	
AP Security	WEP, Access Control List				WPA2 / AESCCMP, Access Control List	
Power Supply	12.2W @ 12V 6-40 VDC opt Battery pack or vehicle cable	15.3W @ 24V 9-40 VDC opt Battery pack	3.69W @ 9V 6-15VDC 9V / 5.4Ah Internal battery	3.69W @ 9V 6-15VDC 9V / 5.4Ah External battery	9-15VDC 9V / 0.9Ah Internal 9V / 5.4Ah External	20W, 48VDC PoE opt 6-40 VDC & battery pack
Size (l/w/h in) (l/w/h cm)	11.75 / 12.75 / 2.5 29.8 / 32.4 / 6.4	19 / 11 / 1.75 48 / 27.9 / 4.4	8.5 / 6.5 / 3.5 21.6 / 16.5 / 8.9	7 / 4.75 / 1.7 17.8 / 12.1 / 4.3	6 / 3.9 / 1.8 15.2 / 9.9 / 4.6	8.4 / 7 / 2 21.3 / 17.7 /
Weight (lbs/kg)	13.6 / 6.1	14.4 / 6.5	2.5 / 1.1	0.7 / 0.33	0.8 / 0.36	3.4 / 1.5
Package	Machined mil-spec IP67	1U rack mount	Plastic PeliCase	Machined rugged IP66	Machined rugged IP66	Cast aluminum IP67
Temp Range	-20°– 60°C	-20°– 60°C	-20°– 60°C	-20°– 60°C	-40°– 75°C	-40°– 80°C
Mgmt	Bridging, Gateway, DHCP, NAT, Port Forwarding	Bridging, Gateway, DHCP, NAT, Port Forwarding	Bridging, Gateway, DHCP, NAT, Port Forwarding	Bridging, Gateway, DHCP, NAT, Port Forwarding	Bridging, Gateway, DHCP, NAT, Port Forwarding	Bridging, Gateway, DHCP, NAT, Port Forwarding
Accessories	GPS, vehicle power buffering, video encoder, Harris SecNet11	GPS, vehicle power buffering, video encoder, Harris SecNet11	Harris SecNet11	GPS, 1 or 2 radio	None (GPS future)	4.9 GHz, 900 MHz frequencies, battery pack (GPS & 3 radio future)

Product	Usage
<p><b>XL</b></p> 	<p>High power dual radio in highly rugged machined metal enclosure for long range and multiple hops without throughput degradation. Can be vehicle or fixed mounted. Easily transported for quick deployability. Equippable with NSA-1 encryption for classified network use.</p>
<p><b>XLR</b></p> 	<p>High power dual radio for long range and multiple hops without throughput degradation. 1U rack mount enclosure for inclusion with other systems in deployable rack, or use on tactical communications vehicle. Equippable with NSA-1 encryption for classified network use.</p>
<p><b>SE</b></p> 	<p>Dual radio with internal battery and antennas. Easily dropped along communications path to extend coverage into blocked areas, such as in-building, around non-line of sight impediments, and into covert areas. Can be used outdoors with battery power. Equippable with NSA-1 encryption for classified network use.</p>
<p><b>ME</b></p> 	<p>Dual or single radio in compact rugged machined metal enclosure. Can be carried in pack or vest, or mounted in fixed position where space is tight. Battery can power unit for about 15 hours, or can be powered from DC source.</p>
<p><b>ME2</b></p> 	<p>Single high throughput 802.11b/g radio with internal battery in rugged machined metal enclosure. Can be carried in pack or vest, or mounted in fixed position where space is tight Internal battery allows short 2-3 hour unpowered use, or external battery can give 15 hours use. Internal battery allows use outdoors with battery power. FIPS 140-2 compliant for use in DoD sensitive but unclassified networks.</p>
<p><b>LX</b></p> 	<p>Dual high power, high throughput 802.11b/g and 802.11a radio in rugged cast aluminum enclosure. Supports long range and multiple hops without throughput degradation. Can be vehicle or fixed mounted, also transportable with optional carry handle with external battery. FIPS 140-2 compliant for use in DoD sensitive but unclassified networks. Future options include 3 radio configuration, 4.9 GHz radio for public safety, or 900 MHz radio for better nonline of sight propagation. Best product for high performance video streaming.</p>