

Resilient Mesh Router – Mechanical Connections

Source	Target	Joint	Delta	Description
pcb_mounting_screws	brass_threaded_inserts	Threaded engagement	(0, 6.3, 0)	M3 Stainless Steel Pan Head Screws â” M3 Threaded Heat-Set Inserts â” Threaded engagement; M3 Threaded Heat-Set Inserts sits 6.3mm up from M3 Stainless Steel Pan Head Screws
integrated_chassis	hotspot_enclosure	M2.5 self-tapping screws	(0, 15, 0)	Integrated Multi-Board Chassis â” Hotspot Enclosure â” M2.5 self-tapping screws; Hotspot Enclosure sits 15mm up from Integrated Multi-Board Chassis
integrated_chassis	som_carrier_board	snap-fit and M2 screws	(0, 5, 0)	Integrated Multi-Board Chassis â” Host System Module â” snap-fit and M2 screws; Host System Module sits 5mm up from Integrated Multi-Board Chassis
integrated_chassis	cellular_modem	M2 screws	(25, 2, -10)	Integrated Multi-Board Chassis â” 5G LTE Cellular Module â” M2 screws; 5G LTE Cellular Module sits 25mm right, 2mm up, 10mm back from Integrated Multi-Board Chassis
integrated_chassis	wifi_bt_card	M2 screws	(-25, 2, -10)	Integrated Multi-Board Chassis â” Wi-Fi 6 BT Combo Module â” M2 screws; Wi-Fi 6 BT Combo Module sits 25mm left, 2mm up, 10mm back from Integrated Multi-Board Chassis
integrated_chassis	sub_ghz_lora	adhesive tension fit	(0, 2, 20)	Integrated Multi-Board Chassis â” Sub-GHz Mesh Radio â” adhesive tension fit; Sub-GHz Mesh Radio sits 2mm up, 20mm forward from Integrated Multi-Board Chassis
integrated_chassis	gnss_receiver	recessed press fit	(0, 15, 0)	Integrated Multi-Board Chassis â” Multi-Band GNSS Module â” recessed press fit; Multi-Band GNSS Module sits 15mm up from Integrated Multi-Board Chassis
hotspot_enclosure	fuel_gauge	adhesive pad	(20, -10, 5)	Hotspot Enclosure â” LiPo Fuel Gauge â” adhesive pad; LiPo Fuel Gauge sits 20mm right, 10mm down, 5mm forward from Hotspot Enclosure
hotspot_enclosure	power_management	screws to integrated bosses	(0, 0, 0)	Hotspot Enclosure â” PMIC and Battery Charger â” screws to integrated bosses; PMIC and Battery Charger centered on Hotspot Enclosure
sma_bulkhead_connectors	hotspot_enclosure	integrated side cutouts with hex nuts	(40, 0, 0)	SMA Female Bulkhead Pigtail Cables â” Hotspot Enclosure â” integrated side cutouts with hex nuts; Hotspot Enclosure sits 40mm right from SMA Female Bulkhead Pigtail Cables

Source	Target	Joint	Delta	Description
hotspot_enclosure	enclosure_vent_plug	attached	(87, -15, -19)	Hotspot Enclosure â†” Breather Vent Venting Plug â€” attached; Breather Vent Venting Plug sits 87mm right, 15mm down, 19mm back from Hotspot Enclosure