

Semantic Edge TV Node – Mechanical Connections

Source	Target	Joint	Delta	Description
enclosure_m3_standoffs	heat_set_inserts	threaded mating	(0, -7.5, 0)	Enclosure M3 Standoffs â†” M3 Heat-Set Inserts â€” threaded mating; M3 Heat-Set Inserts sits 7.5mm down from Enclosure M3 Standoffs
sbc_mounting_bracket	edge_compute_sbc	mount	(0, 16.5, 0)	SBC Mounting Bracket â†” Edge AI Compute Engine â€” mount; Edge AI Compute Engine sits 16.5mm up from SBC Mounting Bracket
hdmi_bridge_mount	hdmi_csi_bridge	mount	(0, 8.5, 0)	HDMI Bridge Mount â†” HDMI Input Capture Module â€” mount; HDMI Input Capture Module sits 8.5mm up from HDMI Bridge Mount
buck_converter_clip	buck_converter_regulator	mount	(0, 12.5, 0)	Buck Converter Clip â†” Auxiliary Step-Down Regulator â€” mount; Auxiliary Step-Down Regulator sits 12.5mm up from Buck Converter Clip
antenna_mount_mast	wifi_bt_antenna	mount	(0, 10.5, 0)	Antenna Mount Mast â†” Dedicated Subnet Antenna â€” mount; Dedicated Subnet Antenna sits 10.5mm up from Antenna Mount Mast
internal_chassis_mounting_tray	heat_set_inserts	heat-set press fit	(0, 0, 0)	Internal Chassis Mounting Tray â†” M3 Heat-Set Inserts â€” heat-set press fit; M3 Heat-Set Inserts centered on Internal Chassis Mounting Tray
sbc_mounting_bracket	internal_chassis_mounting_tray	M3 bolts into heat-set inserts	(0, -15, 0)	SBC Mounting Bracket â†” Internal Chassis Mounting Tray â€” M3 bolts into heat-set inserts; Internal Chassis Mounting Tray sits 15mm down from SBC Mounting Bracket
hdmi_bridge_mount	internal_chassis_mounting_tray	M3 bolts into heat-set inserts	(0, -13.5, 0)	HDMI Bridge Mount â†” Internal Chassis Mounting Tray â€” M3 bolts into heat-set inserts; Internal Chassis Mounting Tray sits 13.5mm down from HDMI Bridge Mount
buck_converter_clip	internal_chassis_mounting_tray	M3 bolts into heat-set inserts	(0, -15, 0)	Buck Converter Clip â†” Internal Chassis Mounting Tray â€” M3 bolts into heat-set inserts; Internal Chassis Mounting Tray sits 15mm down from Buck Converter Clip
antenna_mount_mast	internal_chassis_mounting_tray	integrated clip mount	(0, -20, 0)	Antenna Mount Mast â†” Internal Chassis Mounting Tray â€” integrated clip mount;

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				Internal Chassis Mounting Tray sits 20mm down from Antenna Mount Mast
sbc_mounting_bracket	internal_power_tap_module	attached	(0, 0, 0)	SBC Mounting Bracket â” Internal TV Power Converter â€” attached; Internal TV Power Converter centered on SBC Mounting Bracket
sbc_mounting_bracket	power_supply_strain_relief	attached	(0, -13.5, 0)	SBC Mounting Bracket â” Power Supply Strain Relief â€” attached; Power Supply Strain Relief sits 13.5mm down from SBC Mounting Bracket
sbc_mounting_bracket	tv_power_harness	attached	(0, 0, 0)	SBC Mounting Bracket â” Internal TV Power Tap Harness â€” attached; Internal TV Power Tap Harness centered on SBC Mounting Bracket
coprocessor_dual_deck_mount	internal_chassis_mounting_tray	M3 bolts into heat-set inserts	(0, -15, 0)	Dual-Deck Coprocessor Mount â” Internal Chassis Mounting Tray â€” M3 bolts into heat-set inserts; Internal Chassis Mounting Tray sits 15mm down from Dual-Deck Coprocessor Mount
coprocessor_dual_deck_mount	coprocessor_mcu	press fit snap	(-20, 5, 0)	Dual-Deck Coprocessor Mount â” Semantic Mesh Coprocessor â€” press fit snap; Semantic Mesh Coprocessor sits 20mm left, 5mm up from Dual-Deck Coprocessor Mount
coprocessor_dual_deck_mount	ethernet_phy_module	M3 machine screws	(20, 5, 0)	Dual-Deck Coprocessor Mount â” Fast Ethernet PHY Module â€” M3 machine screws; Fast Ethernet PHY Module sits 20mm right, 5mm up from Dual-Deck Coprocessor Mount