

2014 RAM 1500 Carputer — CONTROL WIRING · OPTION B: TWO ESP32-S3 8DI-8DO boards (fault-isolated) (rev 3.10)
 Board 1 = SAFETY / always-on critical (battery protection, OptiPlex power, combiner). Board 2 = DISCRETIONARY / toys (lights, compressor). A crash on board 2 can NEVER disable board 1's battery reflexes.
 LEGEND: blue = DI signal in · purple dashed = DO trigger (to relay coil) · red = 12V / load power · teal = Ethernet data · gold dashed = USB

