GDS® Vehicle Dock for Zebra EM45

Products Covered	Accompanying Power Supplies
RAM-GDS-DOCK-V3CPAU	RAM-GDS-CHARGE-V3C-2U
RAM-GDS-SKIN-ZE37	

Test	Description
Vibration – operational	MIL-STD-810H, Method 514.8, Table 514.8C-VII, Category 4. Test performed with dock and device oriented vertical, transverse, and longitudinal. 1 hour each axis, 3 hours total. * This is a military grade test meant to simulate extremely harsh environments. Throughout the test there were periodic, brief disconnects to power in the vertical orientation only. This is to be expected given the spring-loaded design of the cradle, which allows for easy insertion and removal of the device. The device remained in the cradle for the entirety of the test in each orientation.

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Functional Shock - operational	MIL-STD-810H, Method 516.8, Procedure 1, 3 positive and 3 negative pulses per vertical, longitudinal, and transverse axis. 18 total pulses. Pulses are 20G, 11ms terminal peak sawtooth. *During the test there were disconnects to power in the vertical orientation only. The device remained in the cradle for the entirety of the test in each orientation.
Pogo Pins – Cycle rating	Pogo pins rated to 100k cycles
USB Validation Protocol, Speed, Power	NPI Developed Testing Specification for USB 2.0 Compliance up to 480Mbps, 4.75-5.25VDC @ 900mA per port
Power Supply Input Voltage Tolerance	NPI Developed Testing Specification for Cycle Testing of Input Voltage and variable current
Power Supply Output Voltage Tolerance	NPI Developed Testing Specification for Cycle Testing of Output Voltage and variable current
Power Supply Load Test	NPI Developed Testing Specification for Cycle Testing of Output Voltage and variable current
Regulatory Compliance	FCC, IC CE, RoHS, WEEE
Safety, Emission, Immunity (Ram Power Supply)	CE EN:55032, EN 55035, IEC 61000-6-1, EN 62368-1, e-Mark