

BACKGROUND

To modernize the way navigation, maintenance, and other critical data is available to crew members, the utilization of iPads and similar smart devices has become common. However, providing power to these devices raises a few concerns. First, powering the smart device must work under various electrical power characteristics without causing damage to the aircraft. Second, the charging port must be isolated, so no sensitive data is transferred. Finally, installation should be easy and per industry proven standards. A standalone charging unit, built and qualified per Military Standard, is needed to alleviate these concerns.

MISSION PROVEN HARDWARE

Staco Systems offers a domestically built standalone charging unit conforming to MIL-STD-704, MIL-DTL-7788, MIL-STD-810, and MIL-STD-461.

First utilized by the Air National Guard on the F-15 aircraft under NSN: 5935016966820 and P/N: 55410-4563-001, our flight proven hardware has been successfully integrated within many other platforms, including the A-10. Our standard mounting allows for the unit to easily be installed within the cockpit or cargo/loadmaster locations.



Standard Configurations

Part Number	Class	D38999 Connector
55410-4544-1UM	Class 1 (unlighted)	
55410-4544-1WM	Class 1-W (white)	
55410-4544-1NM	Class 1-NVIS (Green A)	

Part Number	Class	M24308 Connector
55410-4544-1UD	Class 1 (unlighted)	
55410-4544-1WD	Class 1-W (white)	
55410-4544-1ND	Class 1-NVIS (Green A)	



Specification

CHARGING CAPABILITIES	2.4A / 12W / 5V per port Auto configuration data port
INPUT POWER	28V power source as defined in MIL-STD-704
CONNECTORS	USB 2.0 Standard Military M38999/24FA35 D-sub M24308/3
PAINTED LIGHT PLATE	MIL-DTL-7788 Type VII (Class 1 NVIS Green A and Class 1-W)
ENVIRONMENTAL AND HUMIDITY	Meets the temperature, vibration, shock, altitude and fungus requirements of MIL-STD-810
ELECTRO-MAGNETIC COMPLIANCE	Meets the requirements of MIL-STD-461
MOUNTING	Rack Mount DIN Rail
DIMENSIONS & WEIGHT	5.75" (14.6cm) L x 1.5" (3.8cm) H x 3.12" (7.9cm) W with Military connector 2.53" (6.4cm) W with D-sub connector .6lbs (272g)

ADDITIONAL CONFIGURATIONS

USB Connectors: Type A and Type C in single, dual, and mixed configurations

Power Output: Up to 100W per port

Input Voltages: 12VDC, 28VDC, 48VDC, 115VAC, and 270VDC

CONTACT FOR MORE INFORMATION

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