



Aerospace Devices Inc.™

TM

Charging up the Future

Website: www.aerospacedevice.com

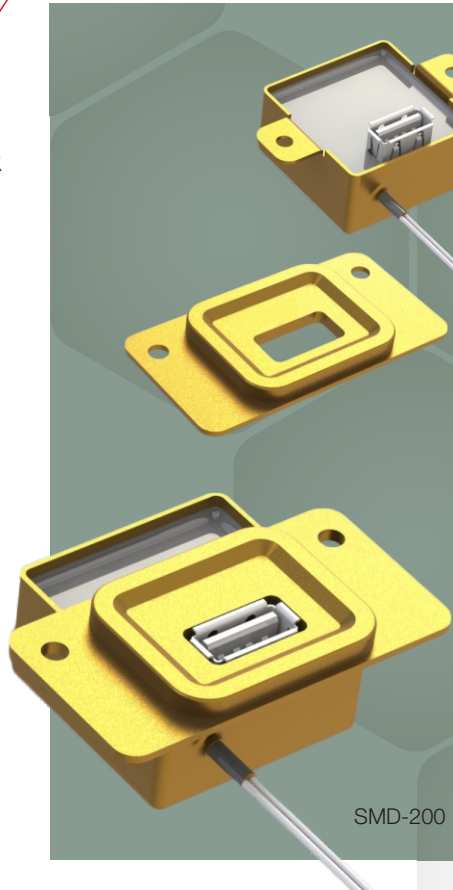
**AEROSPACE
& DEFENSE REVIEW
2024**

**USB CHARGING PLUG &
DEVICES
COMPANY OF THE YEAR**

**CERTIFIED FOR:
FLIGHT DECK ROTOR
AIRCRAFT MAIN CABIN**



SmartDock. Smallest USB A PED Charger Available USB In-Seat Charger SMD-200



The **SmartDock™** charges the latest portable electronic devices without the need for an external power outlet. As a DO-160 certified component, it satisfies the highest standards of the aerospace industry. The SmartDock is the most compact and lightweight device of its kind on the market, and is extremely easy to install. It also protects itself and the charging device against external short circuits and power surges. ASD Inc. offers customization for the internal signature in order to charge special devices that may not recognize the default signature. The default signature is made for Apple iPads, iPods and iPhones as well for most standard USB-charged devices such as music players, digital cameras, smartphones and tablets. A discrete backlight is also available inside the USB connector for night usage. The **SmartDock™** is highly recommended for **SkyPad™** owners as it has the necessary power to keep iPads charged during heavy use.

The SmartDock™ faceplate offers more flexibility to the OEM for customized installations. Various plating options are available, allowing the SmartDock™ to seamlessly blend in with the aesthetics of the existing controls in the cabin. The SmartDock™ can also be ordered without any plating, enabling the OEM to custom plate them independently using the same plating company as the rest of the controls in the cabin.

Specifications

Input power current 14V to 28V

Main power typical current 0.5A at 28V

Maximum output current 3A at 5V

Reverse power input connection protection

Short circuit output protection

Thermal protection

Backlight USB Connector

Width 2.08 in

Depth 1.3 in

Height 0.8 in

Weight 0.05 lb

Wire length 6 in

Positive Wire - White

Negative Wire - White / Black

Ordering Information

**SmartDock, USB In-Seat charger
PN: 908-2040-001**

**SmartDock Faceplate
PN: 908-2044-XXX where XXX is color
plating information**

RTCA DO160F

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2.1 Test Matrix DO-160F

Section	Requirement Category
4.5.1 Ground Survival Low Temperature	A1 -55°C
4.5.1 Short-term operating low temperature	A1 -40°C
4.5.2 Operating Low Temperature	A1 -15°C
4.5.3 Ground Survival High Temperature	A1 +85°C
4.5.3 Short-term Operating High Temp.	A1 +70°C
4.5.4. Operating High Temperature	A1 +55°C
4.6.1 Altitude	A1 15,000 Ft.
4.6.3 Overpressure	A1 Standard
5.0 Temperature Variation	C 2°C/Min
6.3.1 Standard Humidity Env.	A Standard
7.2.1 Operational Shock	B Standard
7.3.1 Crash Safety (Impulse)	A Standard
7.3.3 Crash Safety (Sustained)	B Impulse
8.0 Vibration S Curve	C
13.0 Fungus Resistance	F By Analysis
15.0 Magnetic Effect	Z < 0.3 m inside
16.6 Power Input	B 28VDC Nom
17.0 Voltage Spike	B 56VDC/2usec
18.0 Audio Frequency Power Inputs	B DC Input Power
19.0 Induced Signal Susceptibility	BC +28VDC
21.4 Conducted Emissions	M
21.5 Radiated Emissions	M
25.0 Electrostatic Discharge	A Aerospace Env