

INGENIO USB Extender PLUS



INGENIO USB Extender Plus



The **INGENIO USB Extender PLUS** is a combination of a High Speed USB Charger with a Data pass-through for Portable Electronic Devices (PED's). It is purposefully engineered to meet the stringent technical requirements of the aviation industry. It is **DO-160G** qualified for both fixed wing & rotary aircraft in the cabin and cockpit environments.

- The **INGENIO USB Extender PLUS** is a compact high speed USB 2.0 data connector, designed for aircraft; it lengthens a USB connection from up 4.5 meters [15 feet] to 30 meters [100 feet] from the USB hub/host over a CAT5e cable, eliminating the 5 meter distance limitation of regular USB cables.
- Designed and built with the INGENIO proprietary Intelli-Fuse technology, the **INGENIO USB Extender PLUS** is self-protected from any power irregularities which makes the **INGENIO USB Extender PLUS** very reliable with minimal service costs. Output protection is activated automatically and fully restored once a short circuit is corrected. The input protection is activated by temporarily disconnecting from the power source and is also auto restored.
- The **INGENIO USB Extender PLUS** includes the following features:
 - Two practical uses: USB data extension only (i.e. a remote cabin server USB port) or USB data extension plus MFi USB charging;
 - Slim footprint, vertically or horizontally mounted;
 - Port "On" LED functionality indicator (Blue);
 - Compliant with USB 2.0 specification for High Speed USB Mode;
- Typical applications include connection to cabin servers, data storage systems and webcam systems.
- The **INGENIO USB Extender PLUS** can be easily installed in cabin side ledges, monuments and the cockpit. Due to its small physical size, it can be mounted on a wide range of fixed points .
- The **INGENIO USB Extender PLUS** product is manufactured to power most Portable Electronic devices such as Apple™ iPhones™ and iPads™, Android Smartphones and Tablets; MP3 Players and other USB-powered products.

Specifications

USB 2.0 High Speed USB Mode
Minimum input voltage 10 VDC
Main input voltage 28 VDC
Over-Voltage Intelli-Fuse
Nominal output voltage 5 VDC
Maximum output current 2 A per port
Approx. 95% power efficiency under full load
USB ports LED Indicator [Blue]
Output short circuit active protection
Reverse power installation protection
DO-160G Qualified
CAT5e Data Extender from 4.5 m to 30 m / (15 ft to 100 ft)
Width 2.48 in for Device / 1.65 in for Host
Length 3.06 in for Device / 2.16 in for Host
Height 0.76 in for Device / 0.76 in for Host
Weight 0.23 lb / 104 g (Device & Host)

Ordering Information

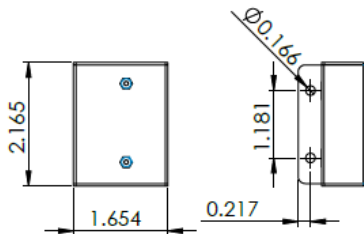
Part Number	-	Part Description
209-6406-021		USB Extender PLUS

Qualifications

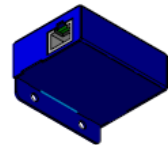
INGENIO Aerospace Inc. is approved and licensed by Apple™ for both MFi development and manufacturing of electronic accessories



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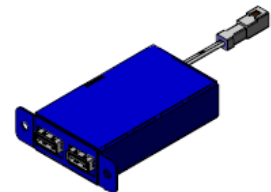
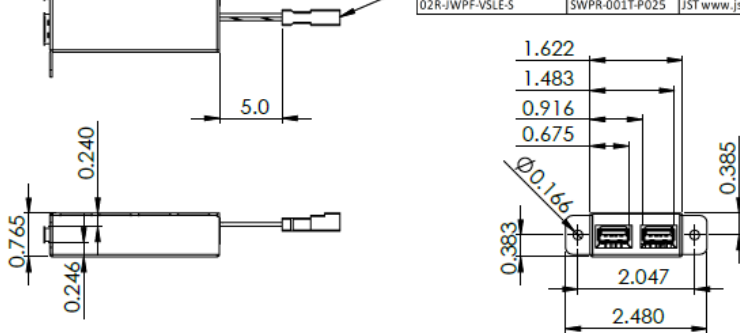
USB Extender PLUS (Host Side)
209-6406-022 Rev B



Weights:
209-6406-022 - 0.07 lb [35g]
209-6406-023 - 0.16 lb [74g]



Mating Connector PN	Mating Pin PN	Manufacturer	Pin Assignment
02R-JWPF-VSLE-S	SWPR-001T-P025	JST www.jst.com	1=Return, 2=28VDC



USB Extender PLUS (Device Side)
209-6406-023 Rev B



USB Extender PLUS

PN 209-6406-021



Note: All dimensions are expressed in inches and drawings are not to scale.