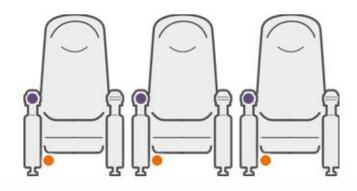


Eirtech Aviation USB Power Solution

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- Installation of 5V, 2.1A USB port on existing seats
- Designed for easy and fast installation
- Convenient access to power supplies mounted remotely from seats
- EASA & FAA compliant

- Full system installation and support documentation.
- Seat certification unaffected.





Installation of 5V High Power reversible USB outlet onto existing economy and business class seats.



Power supplies installed remotely for convenient access (total quantity 8).

These are Not mounted on individual seats so as to prevent any weight restriction issues in regard to 16G seat certification.



One USB Outlet per passenger With LED illuminated for ease of location.





under EASA
Approved Minor
Modification



Light weight 55kg total Kit weight



Turn Key Solution

EASA / FAA Approved
Engineering & Full Kit
supplied with EASA Form 1



Power supply not mounted on seat – No effect on MWA of seat



per power supply and only 8 installed



8 Power supplies
for a narrow body Aircraft
– 24 USB outlets powered
by each power supply



Less Maintenance

Fan-less, sealed, maintenance free power supplies, require less spares etc



Key:

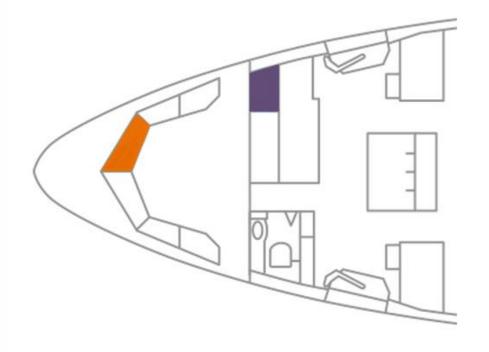




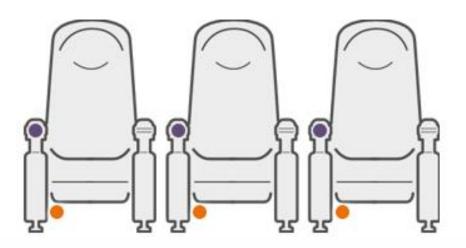




- Commercial Bus Switch / Circuit Breaker in Cockpit
- Control Switch installed on the forward attendants panel for Flight Attendant control







- Eirtech default installation on Seat Leg
- Optional Installation on Seat Armrests

- Consistent installation location for all aircraft
- \bigcirc

Easy and fast installation

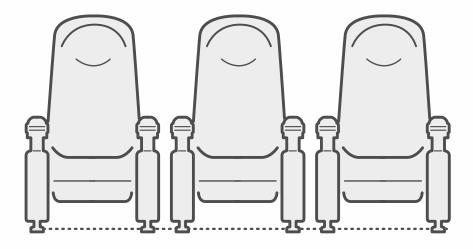
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No impact to seat weight



Easy removal if required in future









Reduced Exposure to Dust etc.





Kit includes required bracketry to attach to structure



Easy Access to Power Supplies



EASA Approved Engineering

Data Package:







Installation designed for minimum operational disruption and ease of installation.



Eirtech Kits:









12 Weeks





No STC Certification Test Plan Required (as EASA Minor Modification)

Eirtech Minor Test Plan only – No EASA input required



Power Supplies are DO-160 Compliant Over Current protection, Over Temperature protection, Over Voltage protection



Over charging is controlled and regulated by the Portable Electronic Device (PED)



Master switch and Circuit Breaker in cockpit to turn system off





Example of installed units





"Eirtech Aviation's In-seat USB power system was a great solution for us; It is silent, fan-less and has an LED light making it easy for our passengers to locate. Crucially installation was simple and fast and the main USB power supply can be Independently controlled by our Flight crew, allowing them to switch it on or off, as necessary. Smartphones and tablets are the here and now and airlines need to act smart to ensure that passengers can stay connected in the sky."

Sander Janson – Technical Director Smartlynx Airlines







Range of colour variations on USB Placard to suit company branding requirements (if applicable)



Company logo can also be added in respect to branding requirements







MTBF – 32,000 hours



Weight – 2.0lbs



12 Month Warranty





MTBF – 50,000 insertions



Seat harness estimated @ 200g per triple seat assembly



24 Month Warranty





How is system turned on / off?

Commercial Bus switch in the Cockpit. Cabin Control Switch on forward attendants panel for use by Flight Crew.



How do you know when a USB is INOP?

Block of USB ports not working.



How do you know when a USB is inoperative?

Power available LED will not be illuminated.



How do you know whena UB port is available for use?

Illuminated LED on USB outlet.



Electrical Attributes:		
Input Voltage:	Rated 115VAC nominal, 350-800Hz.	
Input Current (full load):	2.8 amps nominal; 4.4 amps max	
Input Current (unit off):	400 milliamps	
Output Voltage:	28VDC ± 0.5VDC	
Output Power:	280 watts (280 VA at power factor =1)	
Physical Attributes:		
Weight:	2.0 lbs (1 Kg)	
Dimensions:	L-W-D 6.7 x 60 x 2 Inches (171 x 152 x 51 mm)	
Equipment Qualification:		
Certification:	TSO C-71	
Environment Qualification	RTCA DO-160G	

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Electrical Attributes		
Input Voltage:	9 to 32VDC	
Input Current (full load):	0.7A Max. 0.05A (nom)	
Input Current (unit off):	1.9A Nom (2.1A max)	
Output Voltage:	5VDC ± 0.25DC	
Under & Over Voltage Protection:	Yes	
USB Charging Schemes Supported:	USB Standard BC1.2; Supports non-BC 1.2 Charging Modes	

Physical Attributes:	
Weight:	1 Ounce (0.030kg)
Lighting:	Light pipe Illumination Luminance 30-80 Lumens





Eirtech Aviation is a world leading specialist aviation services company.
We work with international Airlines, Private Operators and Aviation Leasing
Companies across the globe.

EASA Design Organisation EASA 21J.452

GCAA Approved Design Organisation DOA/126

EASA Production Organisation IE.21G.0002
EASA CAMO Part M (G&I)
IE.MG.113

Engineering

Services



Design



Parts

Manufacturing



Materials

Asset

Management



CAMO



Technical

Services



Engines

Aircraft

Refinishing



Aircraft

Painting



Interiors



Graphics







Lufthansa

























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