

CIRCULAR MAGNETIC JACK UNITS

Overview

The next generation Phitek Magnetic Jack Units deliver a fully rotational magnetic interface between the circular jack and plug surface. The unique self-aligning design provides an easy way for passengers to connect to audio and/or power source regardless of the plug direction and lighting conditions. By using patented magnetic technology, rated to 250,000 connection cycles, airlines eliminate expensive audio pin and USB plug breakage. The Circular Magnetic Jack Unit range comes in several different versions for flexible integration in various seat and class configurations. These include basic audio, noise cancellation, future proof digital connectivity and combinations of audio and USB power.

Audio Connectors

- A magnetic connection between the jack and plug surface provides a stable and reliable audio connection for uninterrupted passenger entertainment.
- Self-aligning and fully rotational design makes this the simplest to use audio connector in aviation.
- Connector is backward compatible with personal headphones for in-flight flexibility.
- 10x longer life span compared to standard aircraft audio jacks allows significantly reduced replacement and maintenance downtime costs.
- Lower cost compared to MJU v1 achieved by clever design and reduced parts.
- Cost of magnetic plug is equivalent to standard pin plug, eliminating any headset price increase.



Audio and Noise Cancelling

- Noise cancellation built into the jack allows for significantly reduced headphone cost and is compatible with jack enabled headsets such as the Phitek Stratus.
- Backward compatibility with D2 plugs allows an easy transition for airlines with existing NC headsets.
- Phitek-patented A1 switching technology allows passengers to use personal headphones without the need for an adapter.
- Possible to embed digital technology for increased sound fidelity and new innovations such as immersive 3D surround sound, biometric wellness sensing and intuitive IFE gesture control.



<p>Fully rotational design without impacting the signal makes this the simplest passenger connection system yet</p>	<p>Sockets can be eliminated for minimized possibility of passenger abuse</p>	<p>Simple magnetic plugs are cost equivalent to standard pin plugs</p>	<p>Flexible design for basic audio, noise cancellation, future proof digital connectivity and combinations of audio and USB power to suit all cabin classes</p>

Hybrid Audio and USB Power

- By using an airline provided adapter there is only one jack required for audio and USB charging.
- USB power and IFE audio are delivered through the same magnetic interface. Adapter provides compatibility for passenger carried headphones and adds potential for airline ancillary revenue by selling access to audio and power to passenger.
- No socket on the jack minimizes the possibility of passenger abuse, protecting circuitry and prolonging jack usable life.
- USB Type-A: 10.5W for charging the latest tablets and phones.
- USB Type-C: potential to add USB PD for future charging requirements.



USB Power

- USB charging jack without any audio provides a scaled down power RJU for Economy Class.
- Ancillary revenue from passengers for the adapter provides the airline with a unique way to charge passengers for PED charging.
- Potential to brand the adapter as a passenger souvenir.
- Passenger reuse of adapter becomes an incentive to choose same airline again next time.

