



SafeCell Access Point (SC-AP)

High-performance, secure 802.15.1 Bluetooth wireless connectivity for commercial and corporate Jet applications

NETWORKING

- Bluetooth version 2.0 + DR and 1.2 compliant.
- Class 1, up to 250 meters, Software configurable to support Class 2, up to 20 meters diameter.
- 3 Mbps Bluetooth connection (2.0v +EDR standard). Supports 192 logged-on users.
- Full TCP/IP and RS232 Serial networking.
- Bluetooth profiles supported: SPP, OBEX OPP, OBEX, FTP, PAN.

HARDWARE

- 3 Bluetooth class 1 radios.
- Optional Cabin antennas (not shown).
- Integrated AMD LX800 CPU Server module.
- Power Input: 115VAC 400Hz or 28VDC (10W typical)
- Designed to DO-160E

COM'S INTERFACES

- RS232 for Iridium SBD network service.
- Ethernet for Inmarsat and Thuraya data network services.



SafeCell sets a new standard in wireless connectivity with its new Bluetooth Access Point (SC-AP).

The SafeCell system provides an alternative approach for passengers to use their mobile phones onboard aircraft without the requirement for installing complex GSM PicoCell network infrastructure.

The installation requirements of the SC-AP, is similar to an industry standard WiFi installation. The SC-AP provides wireless connectivity from the passenger's mobile phone or any Bluetooth capable communications device to the unique services offered by SafeCell. The services are delivered via two modes of operation:

- **Broadcast-to-all:** delivers media-rich content such as airline promotions and information to all Bluetooth enabled devices.
- **Subscriber :** For passengers who have downloaded and installed the SafeCell proprietary App onto their mobile device can access a range of low cost air to ground services such as SMS, MMS, text Email and voice messages. SafeCell also turns the mobile phone into an onboard entertainment system as passengers can download Music and video clips, plus retrieve the latest news, destination information and sporting events. All stored by the SC-AP's server module. The SafeCell mobile phone App provides the service interface and directs the passengers mobile phone services from communicating across its normal communication link to its Bluetooth port.

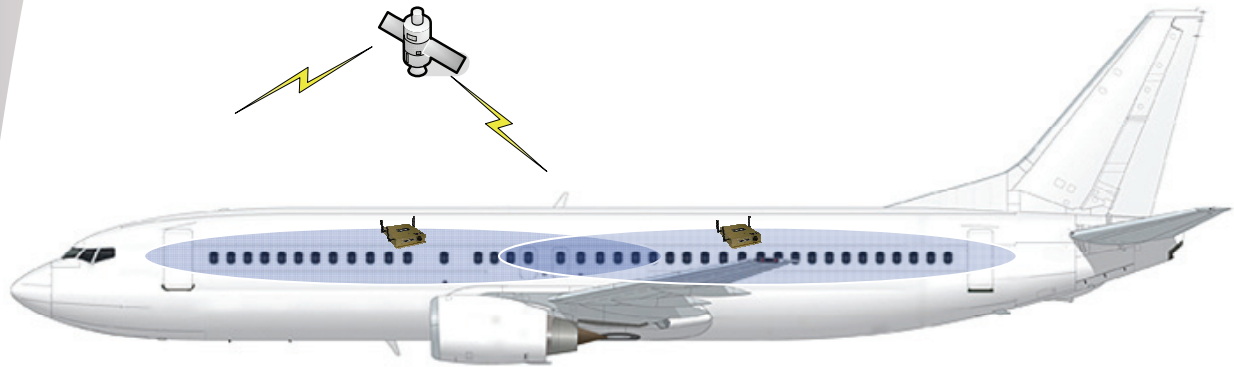


ASiQ Limited
www.asiq.com
Email: pr@asiq.com





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The SC-AP can connect and operate with the aircraft's existing SATCOM system. All SafeCell services are offered on the Inmarsat and Thuraya networks and only SMS and Text Email available for Iridium.

TECHNICAL SUMMARY

MECHANICAL

Dimensions: 48mm(H) x 178mm(W) x 228mm(D)

Weight:

POWER SUPPLY

Input: 115VAC 400Hz or 28VDC

Power Consumption: Less than 10Watts

Hold-up: 200msec

INTERFACES

Ethernet: 1 - 10/100 10BaseT

RS232: 1 - 9 pin serial (can be configured for RS429)

Discrete: 2 inputs and 2 outputs

ENVIRONMENTALS

Temperature: A1

Shock: B

Vibration: SC Standard Random

Power Input: A(WF)

RF Susceptibility: V

Emissions of RF Energy: M



ASiQ Limited
www.asiq.com

Email: pr@asiq.com