

晶焱科技股份有限公司  
**AMAZING** Microelectronic Corp.

---

## Common Applications for **ESD Protection IC** in a Cockpit



MAJESTIC12  
ELECTRONICS



# ⚡ ESD Protection IC for App. in Cockpit

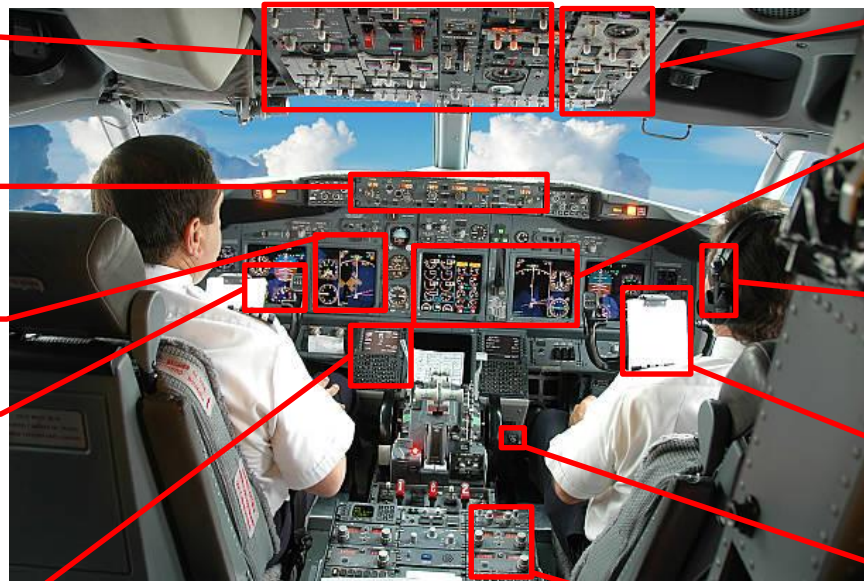
Control Panels &  
Instrumentation

Autopilot Systems

Radar & Sensor  
Systems

Navigation  
Systems

Flight Management  
System (FMS)



Environmental  
Control Systems

Avionics Displays  
& Touchscreens

Communication  
& Audio Systems

Electronic Flight  
Bags (EFB)

USB Ports

Transponder  
System

\*The diagram does not represent the actual location of the cockpit



# Control Panels & Instrumentation

- Description: ensure accurate readings and reliable control.
- Usage for electronic components:

TVS	EMI Filters	RS-232	RS-485	CAN bus
  	  		 	 












- Common Manufacturers:





# Autopilot Systems

- Description: automated flight control.
- Usage for electronic components:

TVS	EMI Filters	RS-232	RS-485	CAN bus
  	  	-	 	  

- Common Manufacturers:

**AVIDYNE**<sup>TM</sup>

 **Collins  
Aerospace**


**GARMIN**<sup>®</sup>

**Honeywell**  
Aerospace

 **GENESYS**  
AEROSYSTEMS  
a Moog Company

# Radar & Sensor Systems

- Description: monitoring aircraft systems & environmental conditions.
- Usage for electronic components:

TVS	EMI Filters	RS-232	RS-485	CAN bus
  	  		 	  

- Common Manufacturers:

**GARMIN**®

**Honeywell**  
Aerospace

 **LEONARDO**

 **RTX**

**THALES**

# Navigation Systems

- Description: GPS receivers and inertial navigation systems.
- Usage for electronic components:

TVS	EMI Filters	RS-232	RS-485	CAN bus
  	  		 	  

- Common Manufacturers:



# Flight Management Systems (FMS)

- Description: handles critical flight planning and navigation tasks.
- Usage for electronic components:

TVS	EMI Filters	RS-232	RS-485	CAN bus
  	  		 	  

- Common Manufacturers:





# Environmental Control Systems

- Description: manage cockpit temperature and air quality.
- Usage for electronic components:

TVS	EMI Filters	RS-232	RS-485	CAN bus
  	  		 	  









- Common Manufacturers:





# Avionics Displays & Touchscreens

- Description: including PFD & MFD, along with touchscreens for pilot input
- Usage for electronic components:

TVS	EMI Filters	RS-232	RS-485	CAN bus
  	  	-		

- Common Manufacturers:

**AVIDYNE**<sup>™</sup>

 **Collins  
Aerospace**











**GARMIN**<sup>®</sup>

**Honeywell**  
Aerospace

**THALES**

# Communication & Audio Systems

- Description: radios, intercoms, and other communication systems.
- Usage for electronic components:

TVS	EMI Filters	RS-232	RS-485	CAN bus
  	  	-	 	 

- Common Manufacturers:



**GARMIN**®







**Honeywell**  
Aerospace



**THALES**

# Electronic Flight Bags (EFB)

- Description: for accessing flight charts, manuals, and other digital info.
- Usage for electronic components:



TVS	EMI Filters	RS-232	RS-485	CAN bus
  	  	-	-	-

- Common Manufacturers:



# Transponder Systems

- Description: aircraft identification and positioning.
- Usage for electronic components:

TVS	EMI Filters	RS-232	RS-485	CAN bus
  	  			

- Common Manufacturers:



**GARMIN**®

**Honeywell**  
Aerospace



**THALES**

# Ready to Get More ESD?



Distributed by Majestic12 Electronics

+1-949-387-0051

49 Post, Irvine, CA 92618

[Collaborate@majestic12electronics.com](mailto:Collaborate@majestic12electronics.com)

