

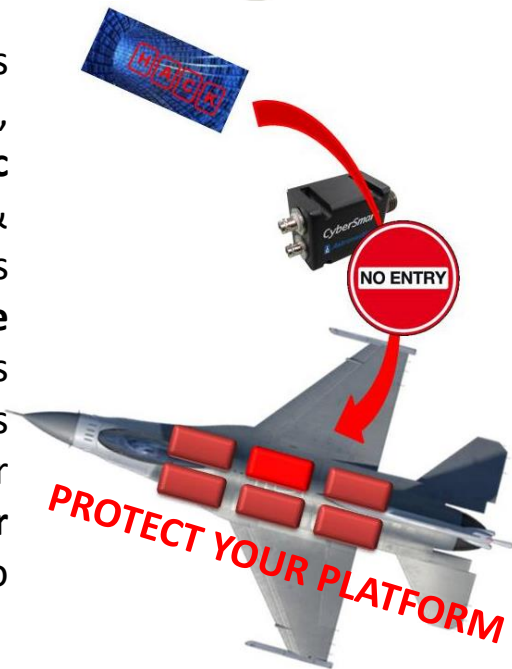


CyberSmart-1000

Avionics Cyber Protection Device

AstronauticsCyberSmart-1000 is a new generation of embedded avionics **cyber threats detection & protection** devices.

CyberSmart-1000 is a unique cyber attacks detection device, added to the avionics, specifically handle **cyber threats to avionic platforms**. Developed by a joint team of cyber & avionics specialists, Astronautics' solution is based on proprietary algorithms & **real-time anomalies analysis** of data and electrical signals over the avionic buses. The Astronautics CyberSmart-1000 will detect any anomaly over the bus, that may be an indication of a **cyber attack**, malware activation or any attempt to jeopardize the normal operation of the avionics.



CyberSmart-1000 is the ultimate cyber-attack detection solution, providing extensive detection of any **abnormal operation of the avionics**. It assumes that malware or "Cyber Bomb" is already in the system, and shall utilize the most appropriate algorithms to detect such threats.

The CyberSmart-1000 shall include:

- Interface to Avionic Buses
- Basic operation as Bus Monitor
- Software programmable RT address for operation as RT over the bus (for reporting detected anomalies)
- Internal storage, storing log of anomalies detected over the bus
- Serial or Ethernet channel for maintenance – configuration setting, log download etc.)
- Discrete outputs – to activate CYBER warning cockpit alerts
- Audio output – for aural warnings to the aircraft intercom system

CyberSmart-1000

PROTECT YOUR PLATFORM

Technical Characteristics



Electrical Interface

Aircraft Interface	MIL-STD -1553B, Bus Monitor (BM) and/or Remote Terminal (RT)
	ARINC-429 interface - Optional
Maintenance channel	RS-422 or Ethernet 10/100
Discrete Outputs	Two (2) discrete – one Open/GND and one 28VDC/Open (Cyber threat detected alert)
Discrete Input	3 x GND/Open Configuration discrete
Audio Output	150 Ohm load at 5VRMS \pm 10% over 300Hz to 2,000Hz
Internal Storage	4GByte (expandable to 128Gbyte)

Power

Power	28 VDC, Less than 18 Watts
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ENVIRONMENTAL SPECIFICATIONS

Temperature - operating	-30°C to +60°C continuous; +71°C intermittent
Temperature - storage	-55°C to +85°C
Altitude	0 to 60,000 Feet
Vibration	5g, 50-2000 Hz
Shock	15g, 11 milliseconds
Humidity	Up to 95% at 40°C
EMI/EMC	Per MIL-STD-461E