



Saber Shield

Datasheet

CAPABILITIES

End user focused GPS location information encryption device

Saber Shield unit connects to Certus below deck unit (BDU), utilizing Power over Ethernet (no external power required)

Extracts Global Positioning System (GPS) data from the Thales MissionLink/VesseLink antenna unit

Encrypts position location information (PLI) using symmetrical AES-256 Galois/Counter Mode (GCM) prior to transmission over Certus

Transmits position location information (PLI) from MissionLink/VesseLink at intervals determined by client

Firmware at HQ receives encrypted PLI, decrypts data, and routes to Common Operating Picture for display

Firmware at HQ includes graphical user interface (GUI) used to manage assignment of Encryption Keys to devices and adjust user inputs (IP address, interval, etc)

It contains a security barrier between encrypted data available from the public network and the non-encrypted data that comes in and out of endpoints

Encrypts the location data



Transmits the data via Iridium Certus to the headquarters (HQ) server where the data is decrypted and sent in Cursor on Target (COT) formatting to a Common Operating Picture (COP) for display

TECHNICAL SPECIFICATIONS

Weight: ~ 50 g

Dimension (W x H x D): 3.625 x 2.438 x 1.063 in

Power: Over Ethernet

Operating Temperature: -40°C to +85°C (-40°F to 158°F)

Encryption Type: AES-256-GCM

Input and Output:

- 1 RJ45 10/100Mb Ethernet Port
 - 1 Mini USB Outlet
 - 1 USB-A Outlet
 - 1 5V Power Outlet
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Designed and manufactured in the U.S.



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