

# NEW GENERATION MESSAGE HANDLING SYSTEM (MHS) TURKEY PRODUCT

MHS is a secure communication system for the robust and highly secure exchange of data using HF radio networks in accordance with related military standards. System supports ACP-127, STANAG 5066 HF E-Mail (SMTP), HF-Chat Application, COSS (Character Oriented Serial Stream), STANAG 4406 (Optional). MHS is a complete hardware and software solution which can also be integrated with remote control systems. There are two main configurations: Single & Redundant System.

## Overall System Key Features

- ACP-127 client and server, support of legacy ACP-127 systems
- STANAG 5066 applications, SMTP Server for STANAG 5066
- STANAG 4406 applications (X.400 & X.500) - Optional
- HF E-Mail and HF Chat Applications
- Interoperable with other MHS Systems and STANAG 5066 solutions
- Compatible with BRASS
- Compatible with various crypto equipment and HF Data Modems
- Remote control features for radios, switching units, data and voice matrices and HF data modems
- Synchronous and Asynchronous serial data interfaces
- All-in-one, small and compact system (Half 19" rack width and 1U height for single system, 3U height for redundant system)
- No moving parts in the hardware
- MIL-STD-810F and MIL-STD-461E compatible hardware design
- Compatible with Linux/Windows/Mac OS, cross-platform
- Modern user interface
- All data and configuration is kept on SQL database.
- No software license limit for number of connected clients

## Single System Key Features

- Compact solution with no hardware and software redundancy
- Can be used as a military computer

## Technical Specifications Hardware

- 1x Intel i7 T Series Processor.
- Minimum 4 core per CPU
- Minimum 8GB RAM
- SSD hard disk.
- 1x HDMI Port with 1080P @60Hz display resolution.
- 4x USB 3.0 ports on the front panel
- 2x USB 2.0 Ports on the rear panel
- RAID controller
- 2x Ethernet ports
- 4x Synchronous/Asynchronous ports
- 6x Asynchronous ports

## Power Supply

- 110/220 VAC

## EMI/EMC

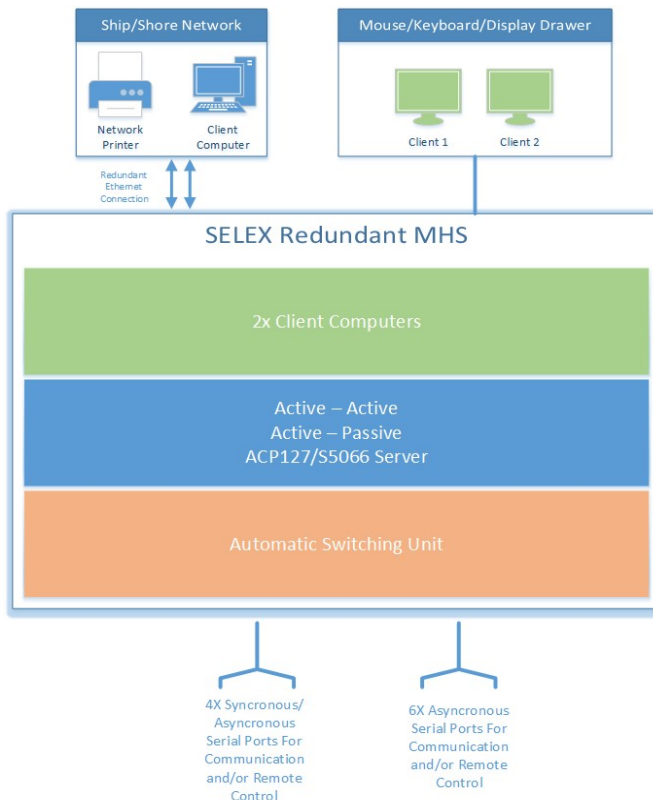
- According to MIL-STD-461E

## Mechanical

- According to MIL-STD-810F
- 19" rack mountable
- 1U height (Half 19" rack width)

## Redundant System Key Features

- All-in-one solution with hardware and software redundancy
- No single point of failure
- Automatic/manual switching of Asynchronous and Synchronous ports
- Fully redundant with automatic replication of data between internal servers
- Active-Passive or Active-Active system with load sharing
- No need for user interaction during boot/recovery/replication/failover tasks
- System architecture which prevents data loss
- Automatic/manual backup of data
- Automatic switching unit for communication ports



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## Technical Specifications

- 6x Asynchronous serial ports.
- 4x Synchronous/Asynchronous serial ports.
- All serial communication ports are redundant with automatic/manual switching to master/slave mode.
- Automatic/Manual switching of Asynchronous and Synchronous ports.

### Hardware

- 2x Servers
- 1x Arbiter server
- 2x Ethernet switch
- 2x Switching unit controller card
- Redundant power supply

### Server Hardware

- 1x Intel i7 T Series Processor.
- Minimum 4 core per CPU
- Minimum 8GB RAM
- SSD hard disk
- 1x HDMI Port with 1080P @60Hz display resolution.
- 4x USB 3.0 ports on the front panel
- 2x USB 2.0 ports on the rear panel
- RAID controller

### Power Supply

- 110/220 VAC
- 24 VDC for emergency.

### EMI/EMC

- According to MIL-STD-461E

### Mechanical

- According to MIL-STD-810F
- 19" rack mountable
- 3U/4U height

### External ports

- 2x Ethernet ports for redundancy.
- 2x Display ports. 1 for each server.
- Keyboard/Mouse connectors.
- USB 3.0 connectors for each server on the front.
- 4x Synchronous/Asynchronous ports.
- 6x Asynchronous ports.
- 2x Power connectors.