



戰術區域通信系統實體模擬器

Improved Mobile Subscriber Equipment Simulators

全系統功能：

戰術區域通信系統實體模擬器係一具高效能、高逼真度、低成本、易維護、可同時執行單機獨立操作或以連線模式執行鏈路建立演練之模擬訓練系統。

General Description:

Improved Mobile Subscriber Equipment Simulators are efficiency and high-fidelity simulation system that is low cost and requires minimum maintenance. The system can provide the simulation training for single CCTS/CCES operation or data link combat maneuver through the network.





戰術區域通信系統實體模擬器

Improved Mobile Subscriber Equipment Stimulators

分系統功能簡介 *Description of Sub-system*

主計算機

具分時(Time Sharing)、多人多工(MultiUser, MultiTask)及多處理器(SMP或NUMA)等功能；滿足模擬器系統即時程式管理能力。

- 2個3.2GHz雙CPU即時電腦。
- 1GB記憶體。
- 120GB硬碟。
- 雙Giga Bit網路功能。
- Windows XP作業系統。

輸出入界面

提供模擬器系統間之類比及數位訊號的傳輸與轉換等功能。

- 工業級界面電腦。
- Compact PCI 延伸機箱。
- Compact PCI/ PCI/ DMA 光纖界面資料傳輸。

模擬車廂

提供通資電學員高逼真度之交換機車廂空間與車廂內元件配置及功能之模擬環境。

- 仿實車架結構之鋁合金結構與蒙皮。
- 車廂具開啓與封閉功能。
- 仿真製造之內艙元件，反應真實件之觸感與力感。

教官台

提供教官執行模擬器系統功能操控、訓練課目選擇及訓練乘員監控等功能。

- CPU 3.2GHz 教官台操作、地理圖資、訊息顯示電腦。
- 中文操作顯示畫面。
- 模擬系統操作、功能設定、監控。

音效通訊

提功模擬系統所需之音效及通訊功能。

- 工業級音效及通訊電腦。
- 音效建置模組。
- 交換機模擬模組

HOST

Host Computer - With time sharing, multi-user/multi-task functions and able to manage the real time programs of the simulator systems

- Dual Core 3.2GHz CPU
- 1GB Memory
- 120GB Hard Disk
- Dual Giga Bit Network function
- Windows XP operation system

I/O Control System

I/O System-Data transfer and communication between analog and digital signals

- Industrial PC with I/O controllers
- Compact PCI extend available
- Compact PCI/PCI/DMA filter interface data transmission

Simulated Cockpit

Switch Cockpit System-provide communication students the realistic operation environment

- Aluminum alloy cabin with simulated switch cockpit structure
- High technology with cabin shape
- High-fidelity control panel in cabinet

Instructor Operation Station

Instructor Operation Station-provide the instructor.

- CPU 3.2 GHz computer, providing training control, GIS and system status display.
- Chinese user interface.
- System control, training setup, crew monitoring.

Sound and Graphic System

Sound and Communication System-provide the sound and communication function

- Industrial PC for simulation of Sound and communication
- Sound simulation module
- Switch simulation module



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