

**AN/GSC-40(V) and AN/MSC-64(V)
Special Communications Systems**

Status: STD-A; NSN: To be determined (AN/GSC-40)
 STD-A; NSN: To be determined (AN/GSC-40A(V)1)
 STD-A; NSN: To be determined (AN/GSC-40A(V)2)
 STD-A; NSN: 5895-01-112-5836 (AN/MSC-64(V)1)
 STD-A; NSN: 5895-01-088-2769 (AN/MSC-64(V)2)
 STD-A; NSN: 5895-01-112-5838 (AN/MSC-64(V)3)

Reference: Not Available (AN/GSC-40(V))
 TM 11-5895-1104-10-1 (AN/MSC-64(V))
 TM 11-5895-1104-10-2 (AN/MSC-64(V))

General Information

The SCS is a UHF SATCOM system operated and maintained by the Army, Navy, and Air Force and consists of SATCOM Terminals AN/GSC-40, AN/GSC-40A(V), and AN/MSC-64(V). The terminals are normally deployed in a network configuration. The AN/GSC-40, AN/GSC-40A(V)1, and AN/GSC-40A(V)2 are command post terminals configured to provide the specific SCS network command and control functions and the means for disseminating highly specialized critical user information. The AN/MSC-64(V) is referred to as the mobile terminal since it predominately supports users requiring rapid redeployment.

Technical Characteristics

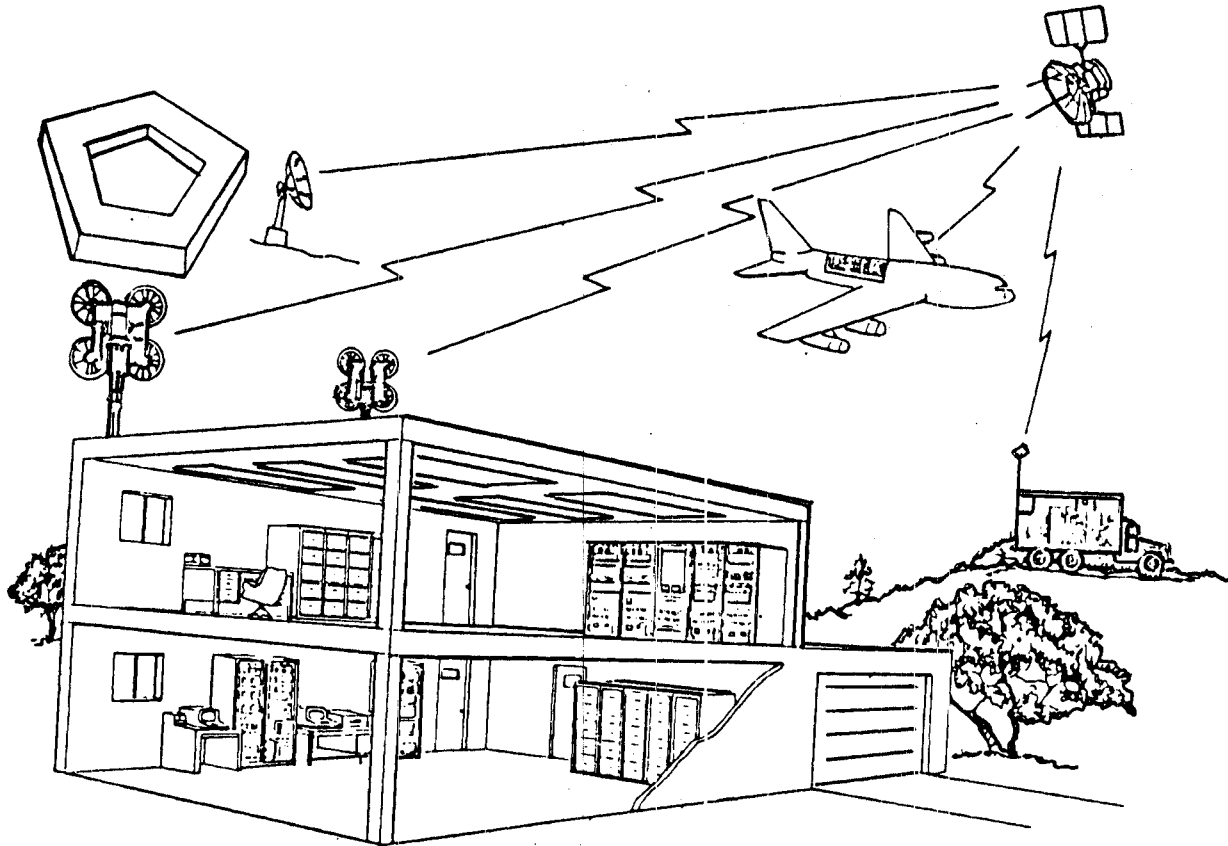
AN/GSC-40/40A(V):

Frequency Range-----225 to 400 MHz
 Security Device-----One TSEC/KG-31; two TSEC/KG-34s; three
 TSEC/KN-2s
 Power Input-----115/230 V AC, 50/60 Hz
 Power Output-----100 W
 Antenna-----AN/GSC-40: two high-gain AS-3060/G
 AN/GSC-40A(V)1/2: four high-gain AS-3060/G

AN/MSC-64(V):

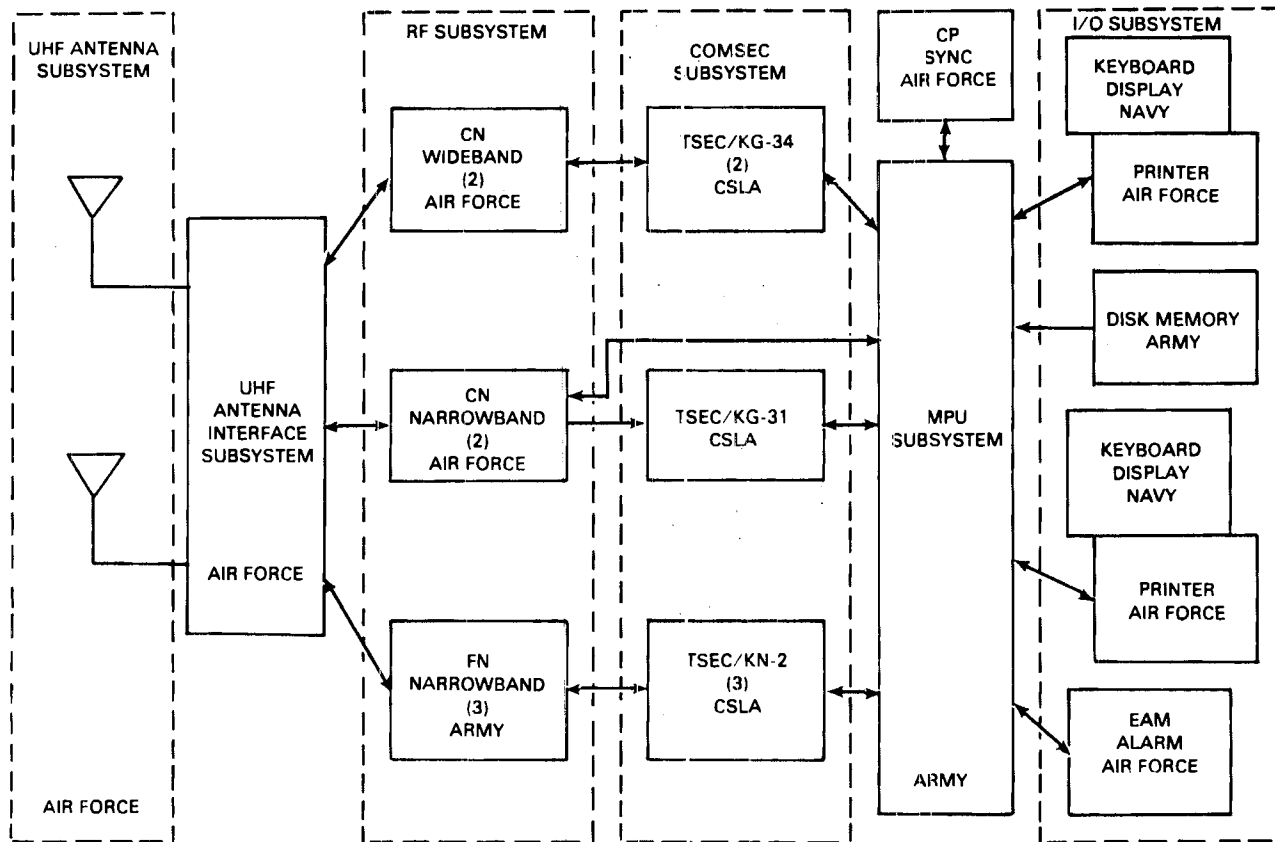
Type of Service-----UHF half-duplex AFSAT mode (includes TDM 3,
 TDM 1/2, and random modes of operation)
 Frequency Range-----225 to 399.975 MHz
 Number of Channels-----7,000
 Security Device-----TSEC/KN-2
 Power Input-----Mobile, 28 V DC at 100 amp; stationary,
 115/230 V AC, 50/60 Hz at 10 kw
 Power Output-----10 to 100 W
 Antenna-----Low-gain AS-3439/G, omnidirectional;
 high-gain AS-3438/G, directional
 Weight-----1,697 kg (3,738 lb) (approximately)

AN/GSC-40(V) and AN/MS-64(V) Special Communications Systems



TYPICAL SCS NET CONFIGURATION

SCS Functional Block Diagram



AN/MSC-64
Satellite Communications Terminal

