

AN/TSC-93A and AN/TSC-93B Satellite Communications Terminals

NSN: 5895-01-113-5344 (AN/TSC-93A)
5895-01-284-8307 (AN/TSC-93B)

Reference: 11-5895-1127-10 (AN/TSC-93A)
11-5895-1434-12-1 (AN/TSC-93B)

General Information

The AN/TSC-93A and AN/TSC-93B terminals contain equipment to receive, transmit, and process medium and high capacity multiplexed voice, data, and teletypewriter circuits. Using encryption equipment, they will process secure and nonsecure traffic. The terminals are intended for point-to-point operation in tactical communications systems. They can simultaneously transmit and receive a single high data-rate carrier. The terminals include modulation and demodulation equipment and a specialized PCM signal processor. Digital interfaces are set up using external connections for an intercommunications set, field telephones, wideband 70 MHz, and CBR alarm. These terminals are used as a communications link via satellite with the AN/TSC-85A, or another AN/TSC-93A.

Major Components

	-93A	93B
Receiver-Transmitter Orderwire RT-1287/TSC	1	1
Frequency Converter CV-3201/TSC	2	1
Digital Data Modern MD-945/TSC	1	1
Radio Frequency Amplifier AM-6701/TSC	1	
Power Supply PP-7087		
Power Supply PP-7712(V)2/TSC	1	1
Frequency Converter CV-3189/TSC	1	
Multiplexer/Demultiplexer (TSSP) TD-1147/TSC	1	
Multiplexer/Demultiplexer (TSSP) TD-1337(V)2/TSC	1	1
Multiplexer TD-754/G		
Multiplexer TD-660/G	2	
High-Speed Data Buffer TD-1065/G	2	
Echo Suppressor MX-9635A/TSC	2	
Converter CV-1548/G	2	
Security Device TSEC/KY-57 (not basic issue)	2	

Major Components (Cont.)

	-93A	93B
Multiplexer TD-1069/G (not basic issue)	1	1
Telephone Set TA-312/PT	1	1
Intercommunications Station LS-147F/FI	1	1
Antenna AS-3036/TSC	1	
Antenna Control C-10237/TSC	1	
Antenna Control C-10348/TSC	1	
Shelter S-250	1	

Technical Characteristics

Frequency Range:

Receive 7250 to 7750 MHz
 Transmit 7900 to 8400 MHz

Power Output 500 W (nominal) at antenna

Single Channel Operation:

(Digital Voice) 16/32 kb/s

Multichannel Operation:

AN/TSC-93 6, 12, 24 channels
 AN/TSC-93A 6, 12, 24, 18-96 channels (48 kb/s per
 channel at true multiplex data rate)

Power Requirements:

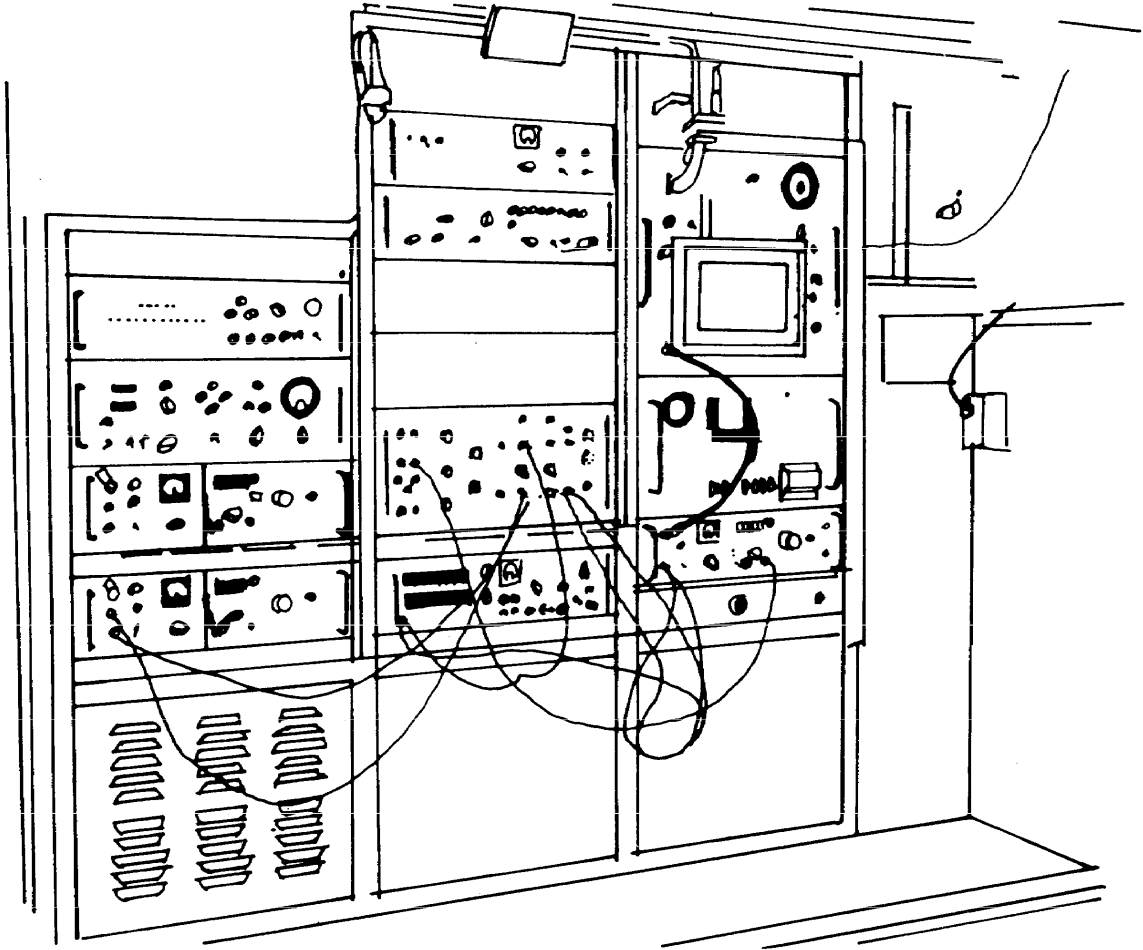
AN/TSC-93 115 V AC 10%, 50/60 Hz 5% single phase
 1380 W (nominal)
 AN/TSC-93A 115 V AC 10%, 50/60 Hz 5% 3-phase
 5-wire, 5500 W (nominal)

Organic Power:

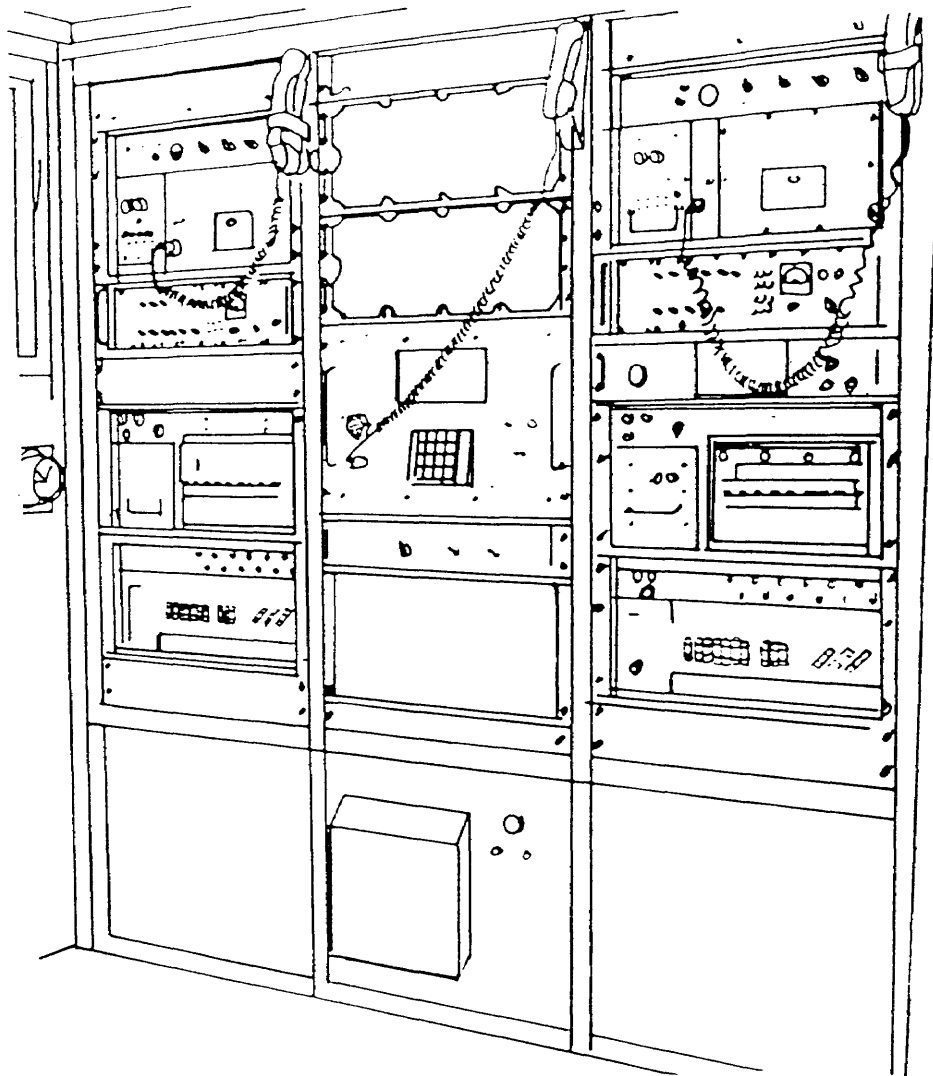
AN/TSC-93 PU-619 (modified)
 AN/TSC-93A 2 1/2 ton truck (two each)

AN/TSC-93A Satellite Communications Terminal

Roadside

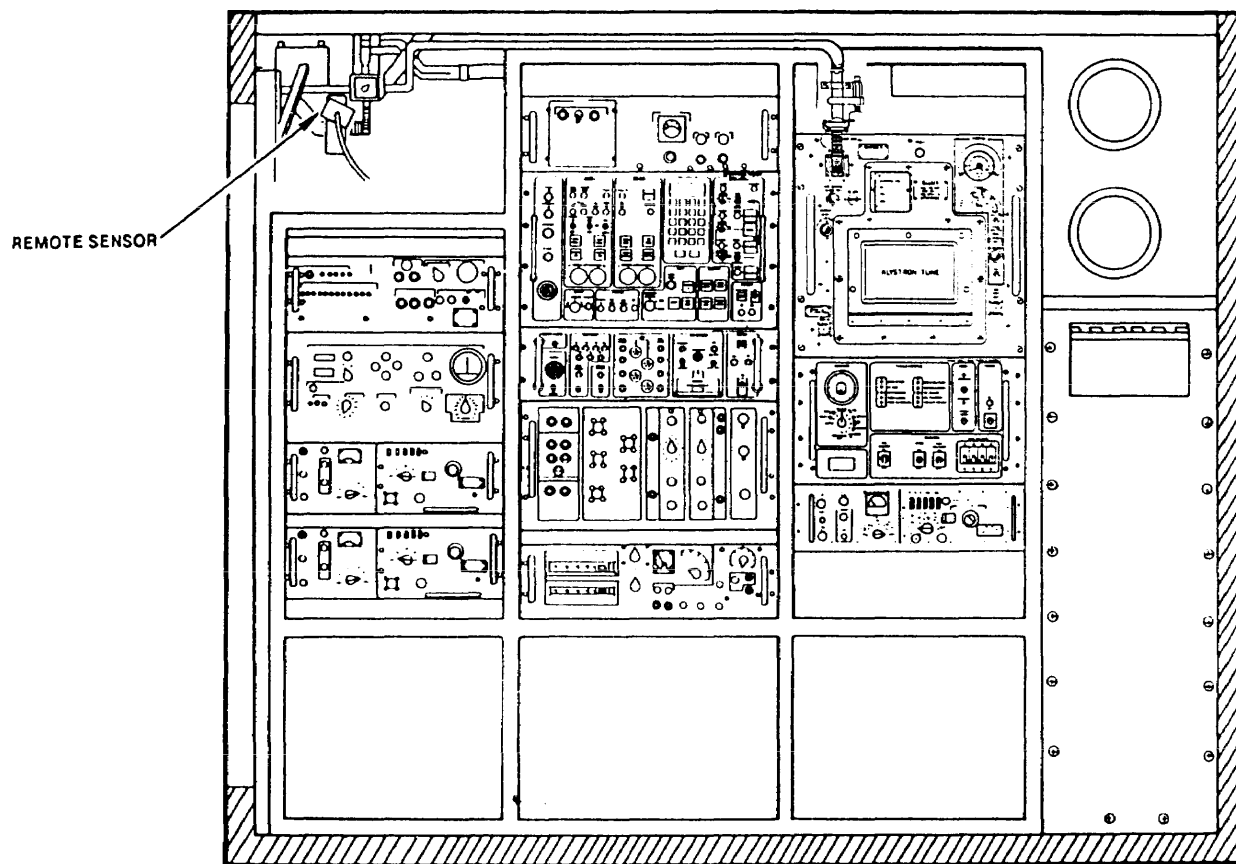


AN/TSC-93A
Satellite Communications Terminal
Curbside



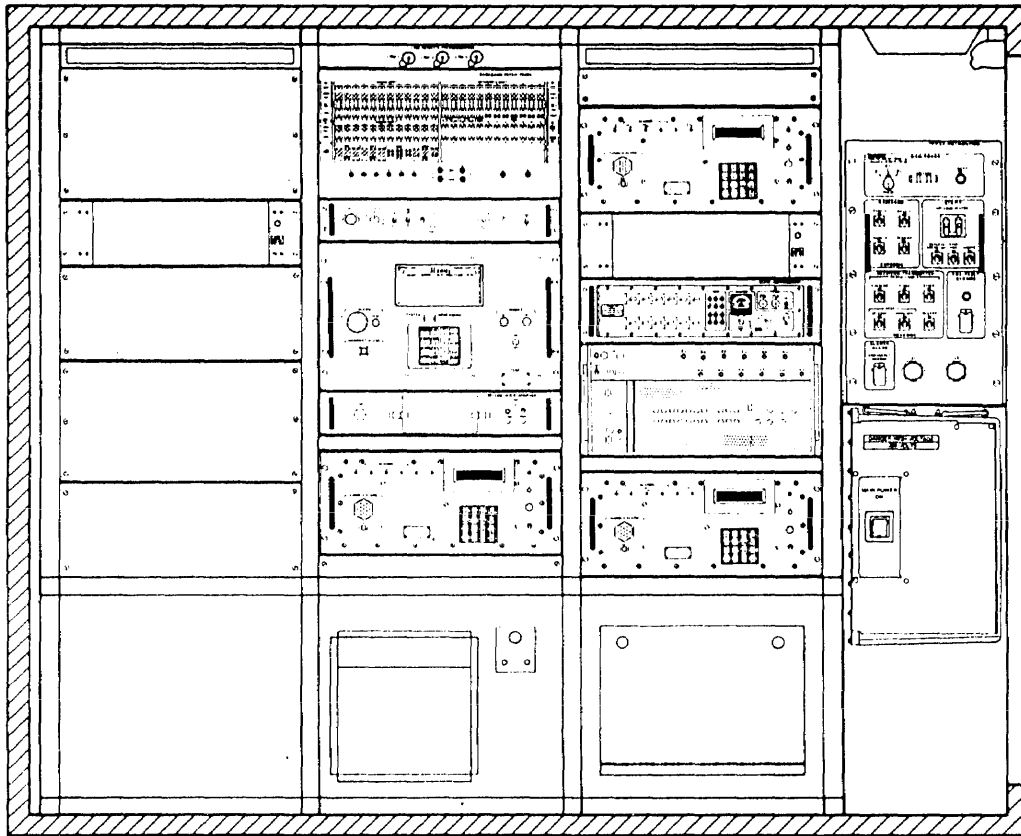
AN/TSC-93B(V)1 Satellite Communications Terminal

Roadside



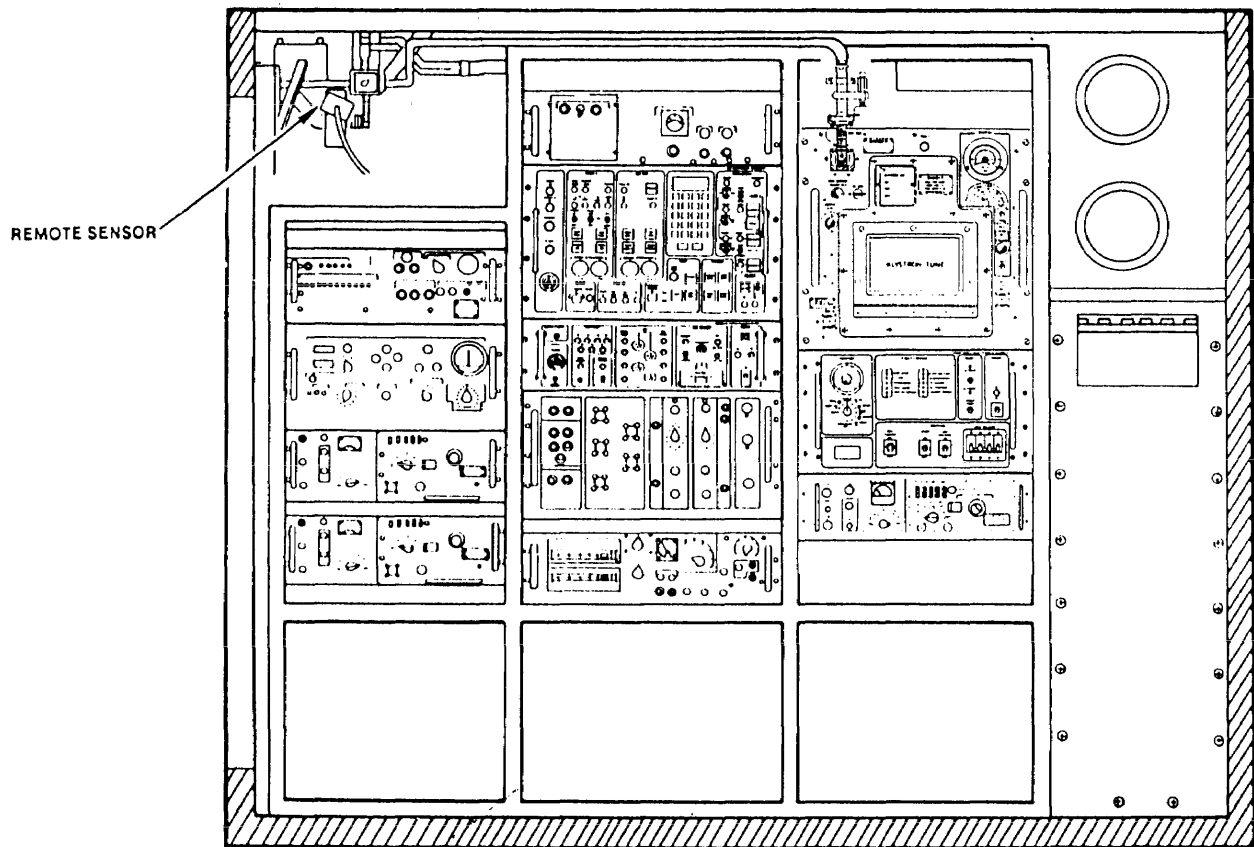
AN/TSC-93B(V)1 Satellite Communications Terminal

Curbside



AN/TSC-93B(V)2 Satellite Communications Terminal

Roadside



AN/TSC-93B(V)2 Satellite Communications Terminal

Curbside

