

AN/TTC-39D
Automatic Telephone Central Office

NSN: 5805-01-315-3751

Reference: TM 11-5805-778-12-1

General Information

The AN/TTC-39D is a modular and transportable nodal control mobile subscriber access circuit switch designed to provide secure and nonsecure automatic switching and technical control for analog, digital, and mobile subscriber traffic for the US Army. The AN/TTC-39D is a product improvement of the AN/TTC-39A. The AN/TTC-39D is an all digital circuit switch with the capacity to terminate 712 lines (both analog and digital). The AN/TTC-39D also has flood search capability and is totally compatible/interchangeable with fielded MSE. The facility retains minimum essential technical control functions including channel reassignment, multiplexing, line testing, and engineering orderwire. The facility also retains minimum essential technical control functions for atomic timing standards, analysis of trouble reports, alarms, and system data.

Major Components

- 1 Switching Module Assembly S-280B/G (Modified)
- 2 PU/406 Electric Power Plants AN/MJQ-10 (30 kW)
- 1 Storage Shelter S-640
- 1 Master Power Distribution Unit ON-224/T
- 1 Maintenance Shelter S-639
- 1 Master Power Distribution

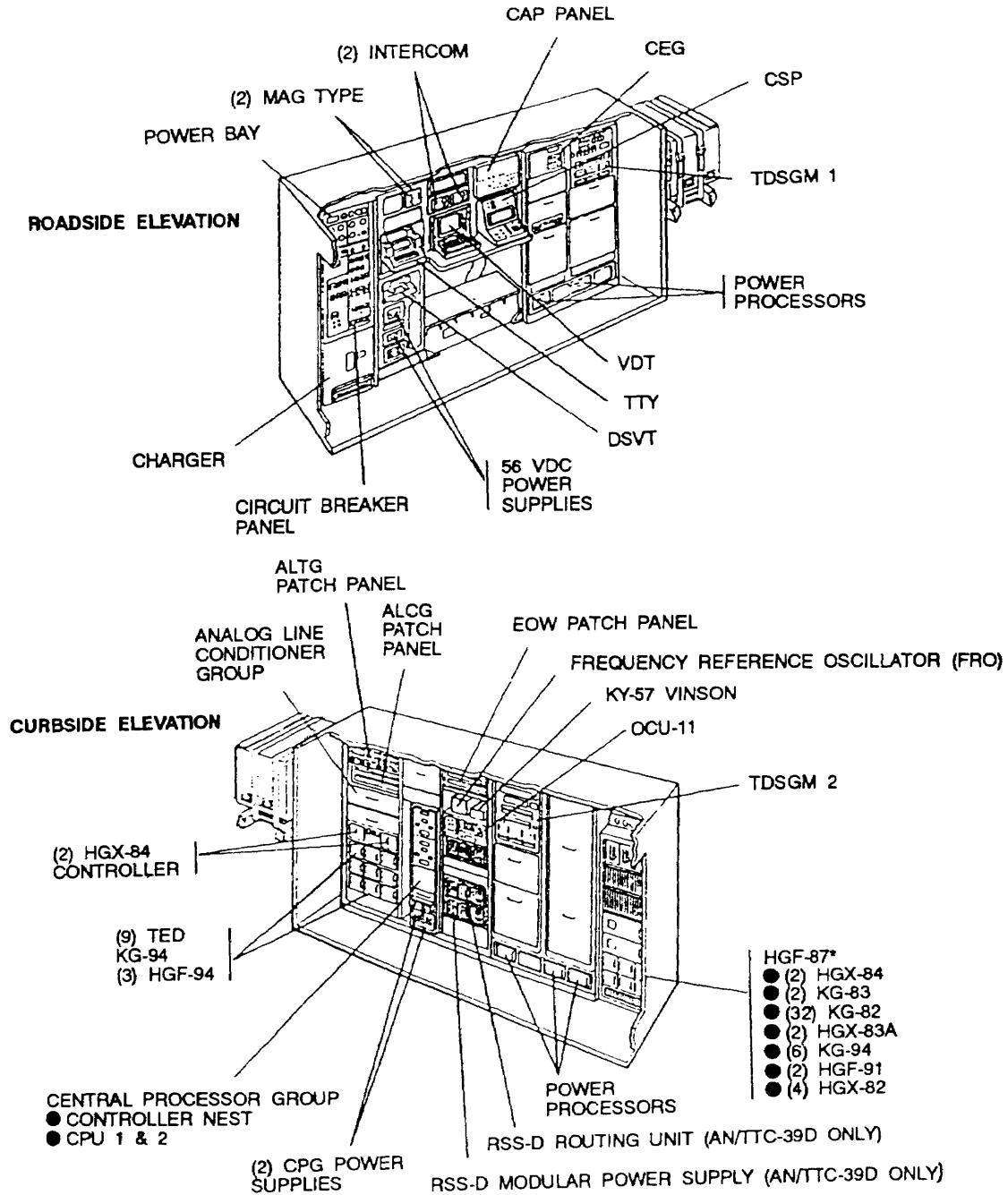
Technical Characteristics

Total External Terminations	712
Digital Switch Matrix	2
DTG Total (648 channels)	30
Group Modem (GPMDM) (41/2-144 channels)	28
Digital NATO Group Modem (DNGPM) (16 channels)	2 (DTG 15, 30)
Single-Channel Digital (N1)	240 (max)
Analog (N2)	240 (max)
Total	N1 + N2 = 240

**Technical Characteristics
(Cont.)**

Analog on TDMX	240
TED	15
Loop Key Generator (LKG)	32
Switch Rate	16 kb/s
Total DTGs	30
Maximum Channels Per DTG	144
In-Band Digital Trunks (Long Loops)	200
Numbering Plan	TRI-TAC NATO, 13 digits; military tactical, 7 digits; AUTOVON, 10 digits; Standardization Agreement (STANAG) NATO Deducible Numbering Plan
Power	115/208 V AC 50, 60, 400 Hz, three phase
Vehicle Requirements	One 5-ton (AN/TTC-39D); Two 2 1/2-ton trucks (S-640) (S-639)

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*= HGF-87 COSMEC rack is in 39D circuit switch