

**AN/TTC-39A(V)1  
Automatic Telephone Central Office**

Status: STD-B; NSN: 5805-01-241-9710

Reference: TM 11-5805-747-12-1

General Information

The AN/TTC-39A(V) is modular/transportable switching communications and nodal control equipment that provides secure automatic switching and technical control for both digital and analog communications. It is a hybrid circuit switch, with a 744-line capacity (96 analog and 648 digital). The facility provides technical control functions including channel reassignment and multiplexing, line testing, engineering orderwire, atomic timing standard, and analysis or trouble reports, alarms, and system data. It signals and supervises analog and digital trunks and lines. This includes 20 Hz/1600 Hz ringdown, DC closure, dial pulse, DTMF/multifrequency, and 6-wire E&M using tone burst, confirmation, noconfirmation, common channel, and DIBITS signaling.

Major Components

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|--|--|
| 1 Switching Module Assembly<br>S-280B/G (Modified) | 1 Master Power Distribution Unit ON-224T |
| 1 Storage Shelter S-640                            | 2 PU-406 Electric Power Units (30 kw)    |
| 1 Maintenance Shelter S-639                        | AN/MJQ-10A                               |

Technical Characteristics

Total External Lines-----	744
Digital Matrix-----	648
Analog Matrix-----	96
Maximum Local Loops/Trunks (within this total)-----	240
Digital Local Loops-----	144
Analog Local Loops/Trunks-----	96
Maximum Analog Loops via DTGs-----	60
Switch Rate-----	16/32 kb/s
Total DTGs-----	30
Maximum Channels Per DTG-----	144
In-Band Digital Trunks (Long Loops)-----	200
Call Rate-----	7,500 (calls per busy hour)
Analog Bandwidth-----	108 kHz
Numbering Plan-----	TRI-TAC NATO, 13 digits; military tactical, 7 digits; AUTOVON, 10 digits
Power-----	120/208 V AC 50, 60, 400 Hz, three-phase
Vehicle Requirements-----	One 5-ton truck (TTC-39A); two 2 1/2-ton trucks (S-640) (S-639)

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