

AN/TRC-191 Radio Access Unit

Status: To be determined; NSN: To be determined

Reference: TM 11-5820-1022-13

General Information

The RAU consists of an S-250/G shelter transported on an M-1037 (HMMWV). It has a capacity of eight simultaneous calls via the eight radios which are elements of the assemblage. The RAU is an automatic interface between the mobile subscribers and the network. It does not include any switching element but ensures full management of the radios channels, including management of traffic load in the direction radio toward the network and managing the necessary signaling protocol codes. The RAU also interfaces to a NC switch of the MSE system using either LOS radio links or direct cable connection. Power is provided by a PU-751/M, 5-kw, trailer-mounted, diesel generator set.

Major Components

1 Shelter S-250()/G	1 Group Modem MD-1026
1 Electronic Transfer Device KYK-13	1 Orderwire Control Unit
1 Radio Frequency Fill Device	1 VINSON COMSEC Equipment KY-57
1 Group Logic Unit	1 Transition Unit
1 Antenna Multicoupler	1 Junction Box
8 Radio Transceivers RT-1539	1 Antenna Mast Mounted
1 Loop Group Multiplexer TD-1235	1 Vehicular Antenna
1 Trunk Encryption Device KG-94	1 DSVI KY-68
	1 Antenna Mast

Technical Characteristics

Power Requirements-----	115 V AC, 50 or 60 Hz, single phase, or 28 V DC
Frequency Range-----	30 to 35 MHz (low band, CONUS) 40 to 50 MHz (high band, CONUS) 30 to 51 MHz (low band, OCONUS) 50 to 88 MHz (high band, OCONUS)
Transmisison Range (Planning)-----	15 km

*RAU transmits in high band and receives in low band.

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