

Section II. Node Center

**AN/GRC-224(P)
Radio Set**

NSN: 5820-01-250-6254

Reference: TM 11-5820-1024-13

General Information

The AN/GRC-224(P) consists of an RF unit and a control unit. The RF unit includes a receiver and transmitter mounted on the two feet diameter parabolic reflector antenna. The control unit is a throw-on-the-ground component or can be mounted in the AN/TRC-190(V), (V)1, (V)3, (V)4, and MSE switching assemblages. The radio set provides intra-nodal connectivity between the switch and LOS assemblages and reduces the RF signature at the command post (CP) location by using down-the-hill (DTH) application. The radio set offers convenient flexibility for simple and efficient network planning and frequency management. The operating frequency range is 14.50 to 15.35 GHz divided into ten subbands. Transmit and receive frequencies in each subband can be selected independently from between 29 (C/F Band) to 49 (L/M Band) possible radio channels, depending on the chosen frequency plan.

Major Components

- 1 Control Module Subassembly C-11826/GRC-224
- 1 Antenna Mast AB-1342/GRC-224, 9 meters
- 1 RF Module/Antenna Subassembly RT-1540/GRC-224
- 1 Signal Cable Assembly
- 1 DC Power Cable Assembly
- 1 High Voltage Amplifier (HVA)
- 1 AC Power Cable Assembly

Technical Characteristics

Power Requirements 28 V DC
 Frequency Range 14.50 to 15.35 GHz
 Transmission Range 2 to 5 km or 1.2 to 3.1 miles
 TDM Data Rates 256, 512, 1024 and 4096 kb/s

NOTE: This radio set is at the LEN, SEN, and NC.

AN/GRC-224(P) Radio Set

