

AN/TRC-174 Radio Repeater

Status: STD-To be determined; NSN: 5820-01-161-9420

Reference: Not Available

General Information

The AN/TRC-174 operates as a radio repeater or split radio terminal and is capable of terminating up to three 18/36 digital multichannel LOS systems. It will be deployed in hybrid (analog/digital) INTACS nodes and extension systems during the transitional period. In split terminal operation it connects to the CNCE by CX-11230 or SRWBR. The AN/TRC-174 replaces the AN/TRC-110 and AN/TRC-152.

Major Components

3 Radio Sets AN/GRC-103(V)4	3 Masts AB-577
3 Low Speed Cable Driver Modems MD-1023()/G	3 Mast Extension Kits CY-4507
1 Digital Data Group Modem MD-1026() (P)/G (up to four modems per case)	1 Intercommunications Station LS-147F/FI
1 Digital Data Modem MD-1065() (P)/G (103 Modem) (three radio modems per case)	1 Frequency Electronic Converters CV-2500
2 Dedicated Loop Encryption Devices TSEC/KG-84	3 Dummy Loads DA-437/GRC-103
1 Orderwire Control Unit C-10716 (OCU Type 1)	1 TA-312/PT
1 VINSON TSEC/KY-58	1 Headset H-182/PT
1 Power Supply 28 V DC	1 Power Unit AN/MJQ-19 ancillary components and spares
3 Antennas AS-3047/GRC-103	1 DSVT KY-68
	1 ETD KYK-13
	1 Fill cable
	1 Tape reader KOI-18
	1 SINGARS-V radio

Technical Characteristics

Frequency Range-----	1.35 to 1.85 GHz (Band IV)
Power Output-----	15 W (Band IV)
Range-----	64 km (40 mi)
Power Requirement-----	115 V AC, single phase
Weight-----	2,134 kg (4,700 lb)
Shelter-----	S-590

NOTE: The AN/TRC-174 will be fielded as part of the TRI-TAC system.

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