

TRC6730 20 Watt Tactical Repeater for the AN/PRC-148 JEM and PRC6809 Radios



Increased Performance Range
for VHF/UHF Radio
Net Operations

TRC6730 20 Watt Tactical Repeater

The Tactical Repeater is a suitcase configuration that houses two Vehicle Adapters functioning together as a repeater. Integrating two AN/PRC-148 JEM or PRC6809 handheld radios, it significantly increases the performance range of VHF/UHF radio net operations when extended radio linkage is required or where obstacles are present that normally preclude line-of-sight communications. The Tactical Repeater provides 20 Watts transmit power in dual antenna configuration and allows internal battery backup using two rechargeable Lithium-ion batteries. It is capable of supporting both voice and data, secure and clear operation. Repeater mode will retransmit cryptographic signals but will not decrypt signals. Base station mode supports encrypting/decrypting signals. Commonality of components and the proven core Vehicle Adapter Amplifier platform enable increased range performance.



Technical Specifications

Key Features

- Contiguous 30–512 MHz Coverage
- 20 Watt RF Output
- Repeater Mode and Base Station Mode
- Rugged Transport Case
- Bi-directional Operation for Simplex, SINCGARS and ECCM Net Linking
- Removable Control Heads for Full Function Remote Operations
- Selectable AC and DC Power Input with Rechargeable Backup Battery

Physical Parameters

Height: 11.7 inches (29.72 cm)
Width: 24.6 inches (62.48 cm)
Depth: 19.7 inches (50.04 cm)
Volume: 5702.4 cubic inches (93445.6 cc)
Weight: 82 pounds (37.2 kg)

Environmental Specifications

(with back-up batteries installed)
Operating Temperature: -20° to +55° C
Storage Temperature: -20° to +60° C
(without back-up batteries installed)
Operating Temperature: -31° to +55° C
Storage Temperature: -31° to +60° C
Humidity: 95% non-condensing
Rain, Shock/Vibration, Sand and Dust, Salt Fog: MIL-STD-810G
Altitude: 15,0000 feet (4572 meters)
Drop: 1.64 feet (1/2 meter)

Transmit Output Power

5 and 20 watts FM
20 watts PEP AM
5 and 20 watts PSK

Input Supply

13–32 VDC
90–132 VAC or 180–264 VAC (47–63 Hz)
Battery backup for 2 hours at 75:25 duty cycle

Reliability

(without radio installed)
MTBF: > 2500 hours
MTTR: ≤ 45 minutes

External Controls

Power, ON/OFF, RF output power, mode select, head set volume in base station mode
One touch, on-demand power source/battery state of charge

Indicators

Transmit, receive, power, fault-battery state of charge and power source

Receive Sensitivity

Typical -115 dBm FM receive sensitivity

Automatic Rate-Selected Reclocking

Supports 12 and 16 kbps signals
Supports SINCGARS frequency hopping

Specifications are subject to change without notice.

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