

RAU – Radio Adapter Unit

Radio Adaptor Unit (RAU) is a rugged, highly portable unit for extending radio handset up to a distance of 2K Meters, using a single pair of copper wire . It enhances the radio link communication between warriors operating with poor or no RF signal strength like inside buildings, tunnels, bunkers, tactical vehicles etc.



RAU can be easily connected to the Radio set using a radio interconnect cable. On the other end, spring loaded binding posts are provided for connecting single pair of field wire to a remote located telephone. DC power for RAU operation is derived from either Radio set or an external battery. ELCOM's Advanced Field Telephone (AFT1001), can be connected to single pair of wire and operated in radio mode.

Application

- Remote operation of Radio's with PTT signaling.

Functionality

- Isolated 4 wire to 2 wire convertor for speech audio.
- PTT signaling and audio over single pair of copper wire.
- Military grade U-183, 6 pin audio connector for connecting radio interconnect cable.
- Isolated power and audio circuit on board to avoid radio interferences.
- 12VDC power feed from radio set.
- Option of connecting external 12V Battery.
- EMI / EMC filters used for protection and compliances.
- Spring loaded binding posts for connecting field wire.

Environmental Data

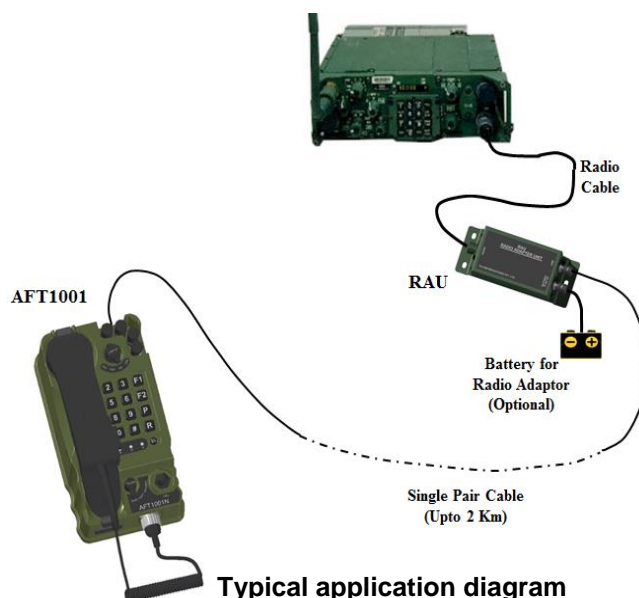
Operating Temperature	-30°C to +55°C
Storage Temperature	-40°C to +70°C
Relative humidity	0 - 95 %
Driving rain	100 mm/hour

References

MIL-STD-810G	Ruggedization
MIL-STD-461E	EMI/EMC
EN-61000-4-2	ESD
EN-61000-4-5	Lightning

Accessories

Radio Cable (optional, specify Radio type)
Operator Manual



Typical application diagram

Features

- Virtually plug and play and easy to set up.
- Compatible with almost all military and commercial radios.
- Rugged and water proof.
- Low power consumption for extended battery life.
- Remote handset over commonly used flexible single pair of copper wire.

Power Supply

Battery Operation	9V– 18V DC
Power Consumption	Less than 0.5W

Physical Parameters

Dimensions (LxWxH)	200x78x52 mm
Weight	Less than 1 Kg