

# Portable Multi Mode Base Station

## AK830

AK830 is designed for setting up provisional communication. With a built-in 16Ah battery and IP67 rating, AK830 can be used in any environment to create or expand an existing network easily.



IP67

Protection

World's First  
Ad Hoc

Communication Solution

DMR Tier I, II & III

Compatible

# Specifications

## General

Frequency Range	136-174MHz / 400-470MHz
Standards Supported	DMR Tier I , II & III / Ad Hoc
Dimension (HxWxD)	180.5X137.91X88.6mm (Not inc. antenna)
Weight	3.2kg (Not inc. antenna)
Battery	16Ah
Operation Voltage	DC 12V
Battery Life	15.6Hours(5/5/90 duty cycle )

## Receiver

Digital Sensitivity (5% BER)	-126dBm ( <b>0.11μV</b> )
Adjacent Channel Selectivity	≥60dB (12.5KHz channel ) / ≤70dB ( 25KHz channel)
Intermodulation	≥70dB
Spurious Response Rejection	≥70dB
Blocking	≥84dB
Co-channel suppression	≥-8dB
Conducted Spurious Emission	9kHz~1GHz ≤ -36dBm 1GHz~12.75GHz ≤ -30dBm

## Transmitter

RF Power	5-20W
Frequency Stability	±1.5ppm
Adjacent Channel Power	≤-60dB (12.5KHz channel ) / ≤-70dB ( 25KHz channel )
Spurious Emission	<1GHz ≤ -36dBm >1GHz ≤ -30dBm
Digital Vocoder Type	NVOC & Ambe++

## Environmental

Operating Temperature	-20°C ~ +55°C
Storage Temperature	-40°C ~ +65°C
Operating Humidity	30% ~ 93%
Storage Humidity	≤ 93%

## GNSS

Constellation Support	GPS / BDS
TTFF(Time To First Fix) Cold Start	<1 minute
TTFF(Time To First Fix) Hot Start	<10 seconds
Horizontal Accuracy	<5 metres CEP

All specifications are subject to change without notice due to continuous development.

## Ad Hoc Communication Solution

AK830 is ideal for resolving blind spots and achieving the last mile coverage.

