

Portable & Rugged Base Station

AK835

The AK835 is designed specifically for operations in the harshest environment. It can be quickly and easily deployed with just a touch of a button. The built-in large capacity battery supports long operating hours in the field without the need of a constant power supply. This makes the AK835 the ideal communication solution when you need to set up a remote radio network when everything else fails.



IP66

Protection

World's First
Ad Hoc

Communication Solution

48Ah

Battery

Specifications

General

Frequency Range	136-174 / 400-470MHz
Standards Supported	DMR Tier I , II & III / Ad Hoc
Dimension (HxWxD)	300X250X140mm (not inc. antenna)
Weight	6.85kg (not inc. antenna)
Battery	48Ah
Operation Voltage	DC 12V
Battery Life	46Hours(5/5/90 duty cycle)

Receiver

Digital Sensitivity (5% BER)	-126dBm (0.11μV)
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

The AK835 is equipped with a large-capacity battery that ensures long-term outdoor use without infrastructure. It can instantly form a local area network and interconnect with other base stations through the same frequency when it is turned on.

