

Professional Multi Mode Radio

AK815

AK815 is the most compatible professional radio around the world. It is designed to support DMR Tier I, II & III, PDT Conventional & Trunking, MPT1327, Analog and Ad Hoc. AK815 makes a reliable and secured communication radio to ensure that you continue to operate anywhere, on any system. The radio also comes with a GPS navigation function which allows you to locate another user with direction and distance on the radio's screen.



IP67

Protection

World's First
Ad Hoc
Radio

8 Modes

Compatible

Specifications

General

Frequency Range	136-174MHz / 400-470MHz
Standards Supported	MPT / PDT / DMR Tier I, II & III / Ad Hoc
Dimension (HxWxD)	130X56X31mm (not inc. antenna)
Weight	300g
Battery	2450mAh / 3250 mAh
Operation Voltage	DC 7.4V
Battery Life	16 / 25 hours (5-5-90 Duty Cycle)

Receiver

Analogue Sensitivity (12dB SINAD)	-126dBm (0.11μV)
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	5W/1W
Frequency Stability	±1.5ppm
Adjacent Channel Power	≤-60dB (12.5KHz channel) / ≤-70dB (25KHz channel)
Conducted / Radiated Emission	<1GHz ≤ -36dBm >1GHz ≤ -30dBm
Digital Vocoder Type	NVOC & Ambe++

Environmental

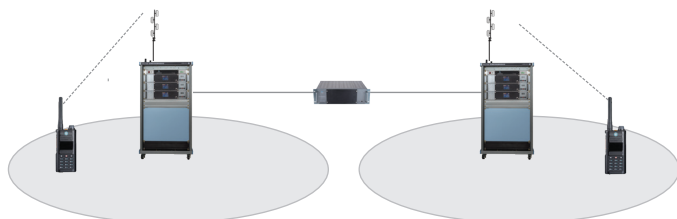
Operating Temperature	-20°C ~ +55°C
Storage Temperature	-40°C ~ +65°C
Operating Humidity	30% ~ 93%
Storage Humidity	≤ 93%

GNSS

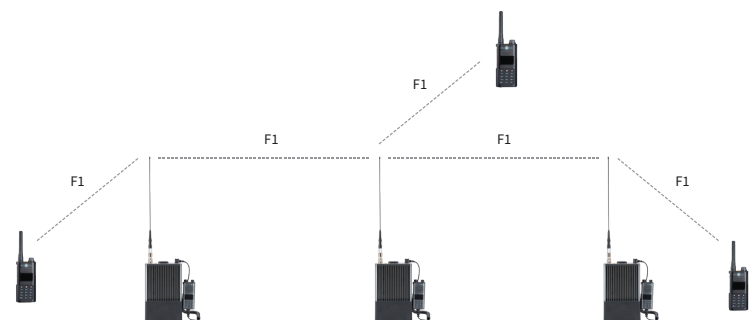
Constellation Support	GPS / BDS
TTFF(Time To First Fix) Cold Start	<1 minute
TTFF(Time To First Fix) Hot Start	<10 seconds
Horizontal Accuracy	<5 metres CEP

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

AK815 Application Solution



Use in DMR Communication Network



Use in Ad hoc Communication Network