

Professional Multi Mode Radio

AK820

Superb performance, high reliability and enhanced functionality, the AK820 mobile radio will enhance your radio communication experience. With its multi mode capability, you can be assured of higher productivity and stay connected practically anywhere, in any system.



GPS /BDS

Supported

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)	51X159X195mm
Weight	1.43kg
Operation Voltage	DC 12V

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	2~20W
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.

Ad Hoc Communication Solution

AK820 can be applied to a variety of standard communication networks and Victel Ad Hoc communication network.

