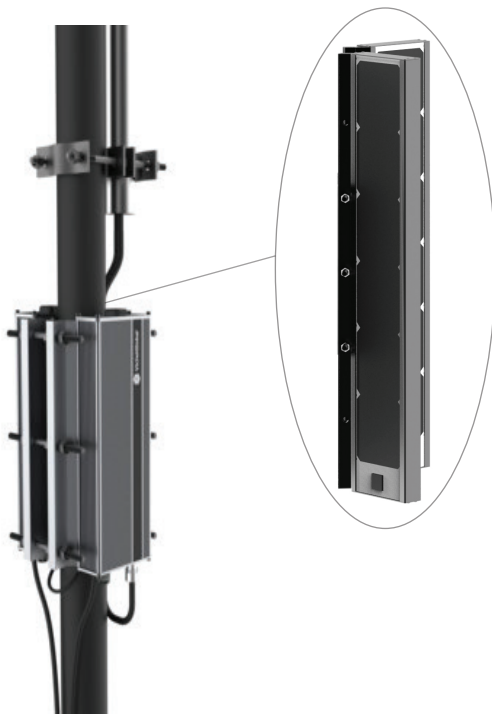


Outdoor Base Station AK865

AK865 is specifically designed to meet the requirements of outdoor network, combine with the solar power generation module and built-in battery to support continuous operation under any harsh environment. Quick and easy to deploy in any place without any infrastructure supply. Base on Victel's Ad Hoc network technology, AK865 is capable to create a multi-hop network as soon as it is power on, in which every node connects with each other automatically and wirelessly by a single frequency.



Power Supply Module

Solar Panel: 8 Panels
Maximum Output Current:2A
Output Current of Cloudy Day:200mA
Capability of Battery:76Ah
Voltage of Battery:5.6V~8.2V
Operating Temperature:-20°C ~ +55°C

IP67

Protection

World's First
Ad Hoc

Communication Solution

Self Reliant

Solution

Specifications

General

Frequency Range	136-174 / 400-470Mhz
Standards Supported	DMR Tier I , II & III / Ad Hoc
Dimension (HxWxD)	850X530X330mm (not inc. antenna)
Weight	6.7kg (not inc. antenna)
Battery	76Ah
Operation Voltage	DC 12V

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 AK865 base station itself carries a large-capacity battery and a solar charging module, and can establish a dual-channel self-reliant outdoor communication network in the harshest environment without infrastructure such as IP/Ethernet/power supply, via Ad Hoc communication technology.

