



POINTSATS®

Effortless Satellite Alignment

The PALS Point-Sat system is an advanced, portable alignment tool engineered to accurately calculate satellite pointing angles from any location on Earth. It guides operators with real-time, clear visual feedback, and drastically reducing setup time. This ensures fast, perfect antenna alignment for strong signal quality in any installation.

Intelligent Signal Detection

Designed for operational ease, it enables rapid satellite acquisition in under three minutes with minimal operator training. Advanced algorithms automate pointing and tracking, while its intuitive interface—available on a built-in display or web browser—eliminates the need for external computers.

Essential Tool

The controller ensures system integrity with three levels of programmable user accounts to prevent unauthorized access. For seamless operational integration, it supports SNMP protocol, allowing for direct management within larger defense communication networks. Its optional beacon receiver further enhances precision in dynamic operational environments.

Key Features

- Integrated of 3 axes gyroscope, 3 axes inclinometer, 3 axes accelerometer sensors
- Integrated GPS module
- Satellite Identification Using Beacon Signals and DVB-S Signatures
- Integrated light sensor senses
- Integrated temperature and humidity sensor
- Supports Wi-Fi 802.11b/g/n wireless connection control
- Supports access to external AGC signals or locking signals
- Built-in rechargeable polymer lithium battery
- Supports TCP/IP wireline access control





PHYSICAL & ELECTRICAL SPEC.

POINTSAT

Dimension	149mm*84mm*27mm
Weight	0.5 Kg
Operation Temperature	-20°C~ +70°C
Storage Temperature	-30°C~ +80°C
Grade of Protection	IP67
Build in Battery	3.7VDC @ 5000mAh, 84*54*8.5mm

DISPLAY WITH TOUCH PAD

POINTSAT

Display Type	5.0", TFT-LCD, Touch Screen, 65K/262K/16.7M COLORS
Display Mode	IPS Normally Back
Touch Type	Capacitive touch

TEMPERATURE SENSOR

POINTSAT

Resolution	14bit 0.01°C, 12bit 0.04°C
Accuracy tolerance	±0.3°C typ., ±1.5°C max
Repeatability	±0.1°C
Operating Range	-40~+125 °C
Response Time	5~30s
Long Term Drift	<0.02°C/year

GYROSCOPE

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Full-Scale Range	±250 dps, ±500 dps, ±1000 dps, ±2000 dps
ADC	16-bit
Sensitivity Scale Factor	131 LSB/(dps),65.5 LSB/(dps), 32.8 LSB/(dps),16.4 LSB/(dps)
Output Date Rate	9Kmax, user selectable
Nonlinearity	±0.1%, Best fit straight line@25
Cross-Axis Sensitivity	±2%

ACCELEROMETER

POINTSAT

Full-Scale Range	±250 dps, ±500 dps, ±1000 dps, ±2000 dps
ADC	16-bit
Sensitivity Scale Factor	131 LSB/(dps),65.5 LSB/(dps), 32.8 LSB/(dps),16.4 LSB/(dps)
Output Date Rate	9Kmax, user selectable
Nonlinearity	±0.1%, Best fit straight line@25
Cross-Axis Sensitivity	±2%

GPS MODULE

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GNSS Mode	GPS & GLONASS
Level	TTL
Baud Rate	9600bps(configurable)
Output Rate	1Hz(configurable)
Cold Start Time	<60 Seconds
Warm Start Time	<45 Seconds
Protocol	NMEA-0183(configurable)

HUMIDITY SENSOR

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Resolution	12bit 0.04%RH, 8bit 0.7%RH
Accuracy Tolerance	±2%RH typ., ±2%RH max
Repeatability	±0.1%RH
Operating Range	0~100%RH
Response Time	8S
Long Term Drift	<0.25%RH/year
Nonlinearity	<0.1%RH

Specifications are subject to change.

