## PAC-550-MIL

PAC-550-MIL Antenna controller is designed to meet the demand of the military industry. PALS put hundreds of hours of research and development and nearly 3 decades of experience to develop an Antenna Controller to meet military-grade standards. PAC-550-MIL got tested in the harshest environments to prove it's quality. PALS is proud to present you, possibly one and the best series of antenna controllers in the market.

PAC-550-MIL is easy to use for an operator who has minimal training and no knowledge about satellites. PAC-550-MIL finds defined satellites under 3 minutes. It's equipped with state-of-art algorithms to minimize operator intervention and automatically perform expected tasks. It also has features such as memory tracking, beacon receiver (optional) with adjustable features, manual control features for advanced users. It's fully graphical front panel display eliminates the need for a computer. While it's fully responsive web interface promises the exact same experience. It features 3 levels, programmable user accounts for both security, and prevent accidental interventions. It also supports SNMP to integrate into your management systems.

## COMPATIBILITY

➤ MIL-STD-810
➤ MIL-STD-461
➤ MIL-STD-1472
➤ MIL-STD-188/124A
➤ Eutelsat Characterized Autopointing

## Structural Features

➤ Ruggedized Design to Work in Harsh Enviroments
➤ Full Graphical Front Panel Display with Backlight
➤ Alphanumeric Keypad for Ease of Use
➤ Stow Prevention Key for Maintenence
➤ Integrated DVB-S/S2 Receiver
➤ Integrated 10 MHz Generator with Auto External Switching
➤ Military Grade GPS and GLONASS Receiver
➤ Integrated Beacon Receiver (Optional)*
➤ Integrated AGC Receiver for Modem Integration
➤ Integrated De-Ice Controller with Sensors (Optional)
➤ Emergency Stop Button
➤ More than 5000 Hours MTBF Continuous Operation (MIL-HNDBK-217) (Ground Mobile)

*: Beacon receiver can ben integrated and used simulteniously with DVB S/S2 receiver in same unit.

## Firmware Features

➤ Fully Automated Satellite Signal Acquision under 3 min.
➤ User Configurable Target Pointing
➤ Satellite Memory Tracking
➤ Fully Responsive Web Interface (SNMP Support)
➤ Event and Alarm Logging
➤ 3 Level User Access
➤ Configurable Visual and Audio Alarms
➤ Build In Self Test
➤ Very Low Start-Up Time

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## GENERAL SPECIFICATIONS

| | |
|---|---|
| Proccesor | 120 MHz ARM Multiprocessors |
| Topology | Indoor and Outdoor Units |
| RF Receiver | DVB S/S2, Beacon (optional), AGC |
| Peripherals | GPS and GLONASS Receiver, Inclinometer, True Compass, 3 Axes Motor Drive, 16-bit Absolute Resolver Drive |
| 10 MHz Generator | Internal generator for LNB input. Internal Generator Output Port. External Signal Input Port (Automatically Switches to External). User configurable. |

## MONITOR AND CONTROL SPECIFICATIONS

| | |
|---|---|
| HMI | Fully Graphical Front Panel Screen with EMC Shield, Alphanumerical Keypad |
| Remote | RJ-45 port for full responsive web interface (no software needed) and SNMP v2c support |
| Monitor Ports | Input Signal Monitoring Port |

## PHYSICAL FEATURES

| | |
|---|---|
| Dimensions | 424 (19") x 551 x 88 (2RU) mm |
| Weight | 14 kg |

## ELECTRICAL SPECIFICATIONS

| | |
|---|---|
| Power Rating | 90-264 VAC, 47-63 Hz |
| Power Consumtion | 325 W max (except de-ice) |
| LNB Power | 13/15/18 VDC and 22 KHz User Configurable Supply |
| Misc. | Internal Power Factor Corrector and Line Filter |

## ENVIROMENTAL SPECIFICATIONS

| Test Name | Specification | Limitations |
|---|---|---|
| Tempertaure | Compliant with MIL-STD-810G Method 501.5 and Method 502.5 | Operational: -10 °C - +55 °C<br>Survival: -20 °C - +60 °C |
| Humidity | Compliant with MIL-STD-810G Method 507.5 | %95 Cycling Temp |
| Low Pressure | Compliant with MIL-STD-810G Method 500.5 | Operational: 3000 meter<br>Survival: 4500 meter |
| Thermal Shock | Compliant with MIL-STD-810G Method 503.5 | -20 to +60 cyclic shock |
| Vibration | Compliant with MIL-STD-810G Method 514.6 | Cat. 4 and Cat. 10 on all axes |
| Mechanical Shock | Compliant with MIL-STD-810G Method 516.5 | 20 G, 11 ms on all axes |
| Electromagnetic | Compliant with MIL-STD461F; CE102, CE106, CS101, CS114, CS115, CS116, RE102, RS103 | |