



PAC-550-MIL

PAC-550-MIL Antenna controller is designed to meet the demand of the military industry. PALS puts 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 its 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. Its fully graphical front panel display eliminates the need for a computer. While its fully responsive web interface promises the exact same experience. It features 3 levels programmable user accounts for both security, and prevention of accidental interventions. It also supports SNMP for integration of it 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 Environment
- Full Graphical Front Panel Display with Backlight
- Alphanumeric Keypad for Ease of Use
- Stow Prevention Key for Maintenance
- 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 be integrated and used simultaneously with DVB S/S2 receiver in the same unit.

Firmware Features

- Fully Automated Satellite Signal Acquisition 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



GENERAL SPECIFICATIONS

Processor	120 MHz ARM Multiprocessors
Topology	Indoor and Outdoor Units
RF Receiver	DVB S/S2, Beacon (optional), AGC
Peripherals	GPS and GLONASS Receiver, Inclinator, 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, Alphanumeric 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 Consumption	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

ENVIRONMENTAL SPECIFICATIONS

Test Name	Specification	Limitations
Tempertaure	Compliant with MIL-STD-810G Method 501.5 and Method 502.5	Operational: -10 °C - +55 °C 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 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	

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