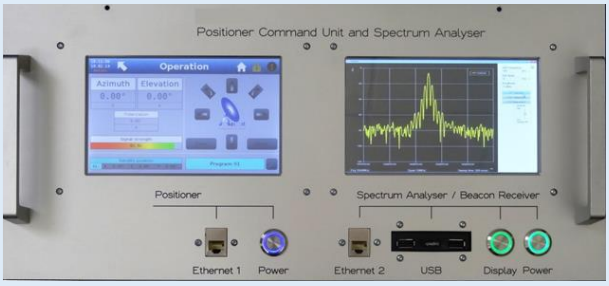
APS720 Antenna Control Unit with integrated Spectrum Analyzer

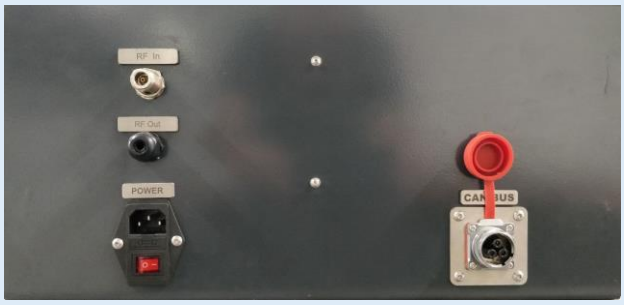
With over 25 years of experience in the development of satellite antenna positioners and antenna control systems, GlobalApexsat's expertise in this field has led to the development of the new APS720 Antenna Control Unit with integrates Spectrum Analyzer. This Controller represents a significant advancement in satellite communications technology, offering improved performance and versatility for a wide range of applications. Built as a two-unit design with a dedicated indoor unit with screen and a motorized ODU cabinet, the APS 700 can be used for a wide range of satcom applications.

System Features

- Available for all VSAT and ESA Antennas from 0,75m to 9,0m diameter
- Drives any Elevation over Azimuth Motorizations and X/Y Positioners
- 2 Axis Az/El and X/Y Control with optional 3rd Axis Polarizaton Drive
- Optional Multifeed Revolver Control
  - Control of up to 7 independent Motors (Az/El, 4 x Polarization Drives, Revolver Motor) on a single Positioner
- Satellite Monitoring & Tracking via Spectrum Analyzer

- 5RU Indoor Unit with Dual Screens
- CAN Bus Communication to ODU
  - Optional: Wi-Fi or Optical interface for Communication with ODU
- Analog and Digital (RS232 & Ethernet) Communication interfaces for external DVB-S/S2 Receivers and Beacon Receivers
- RF Interfaces with In & Out connector
  - Integrated Splitter and LNB power supply
- APS700 Controller with 7” Touchscreen
- Industrial grade PLC with 800 MHz ARM Cortex A9 CPU and 256 MB RAM + 256MB Flash





Global Invacom Manufacturing Ltd., Metcalf Drive, Altham Industrial Estate, Accrington BB5 5TU, United Kingdom
Phone: +44 (0) 203 0533 520, Email: sales@globalinvacom.com
All designs, specification and availabilities of products and services presented in this bulletin are subject to change without notice.

APS720 Antenna Control Unit with integrated Spectrum Analyzer

- Spectrum Analyzer with 7” Touchscreen
- Frequency Range: 1 Hz to 4,4 GHz
- Amplitude: -151 dBm to +10 dBm
- Accuracy: 0.25 dB relative accuracy
- Resolution Bandwidth: 0,1Hz to 250 kHz and 5 MHz
- Frequency Selection: min. 100 Hz Steps
- LNB Power: max 500mA via power injector



Optional Equipment:

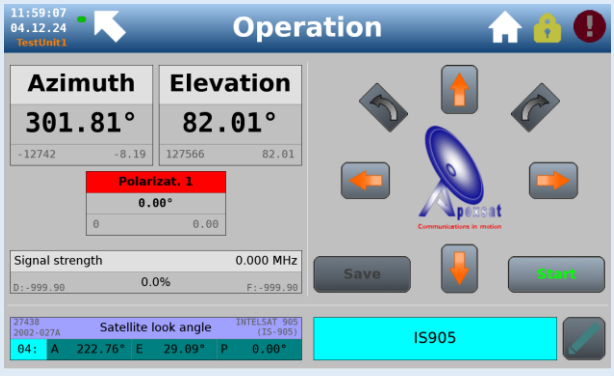
- TLE server: Find and track satellites based on TLE Data

- Outdoor Cabinet with integrated climatization and power supplies
- Control of DC/BLDC Motors (24-60V, 700W).
- Interfaces with high precision, high speed and/or high-power servo motors(400V) with up to 15 kW peak.
- Uses integrated Motor and On Axis Encoders
- Precise Satellite positioning and tracking via variable speed Motor Controller with Closed Loop Control System
- Manual Move Interface for local positioning at the antenna
- CAN Bus interface to Indoor unit



Features: APS700 Antenna Controller

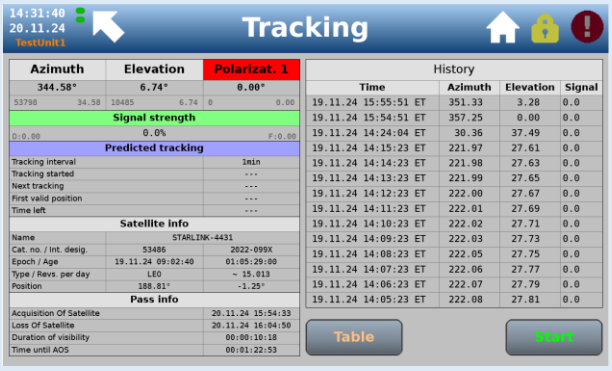
- Antenna Control via 7” Touchscreen
- Remote control via HTML5 Web GUI
- Network management via MODBUS over TCP
- 99 Satellite memory
- Manual Satellite positioning
- GPS based Satellite positioning

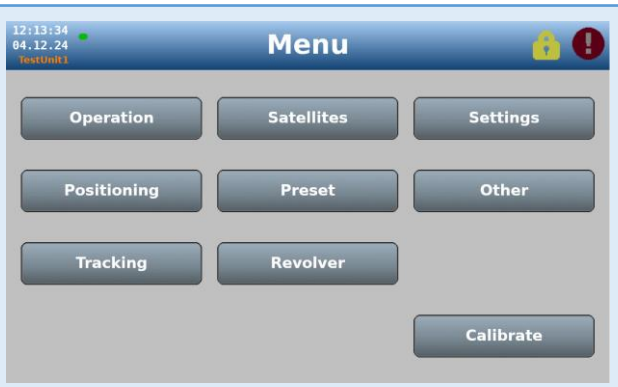


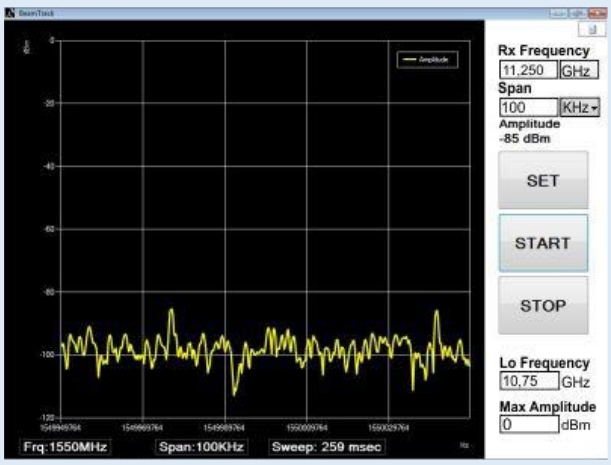
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APS720 Antenna Control Unit with integrated Spectrum Analyzer

- (Opt.) TLE based Satellite positioning
- (Opt.) Signal based tracking based on different variable(Time, Signal, table Optimization)
  - Integrated Spectrum Analyzer
  - External Beacon and DVB Receivers
  - For GEO/IO Satellites
- (Opt.) TLE Satellite Path Prediction & Tracking
  - Integrated TLE Server
  - For GEO/IO and individual MEO/LEO satellites
- Available Options:
  - Polarization Switching
  - Multifeed revolver Control
  - Remote Triggers







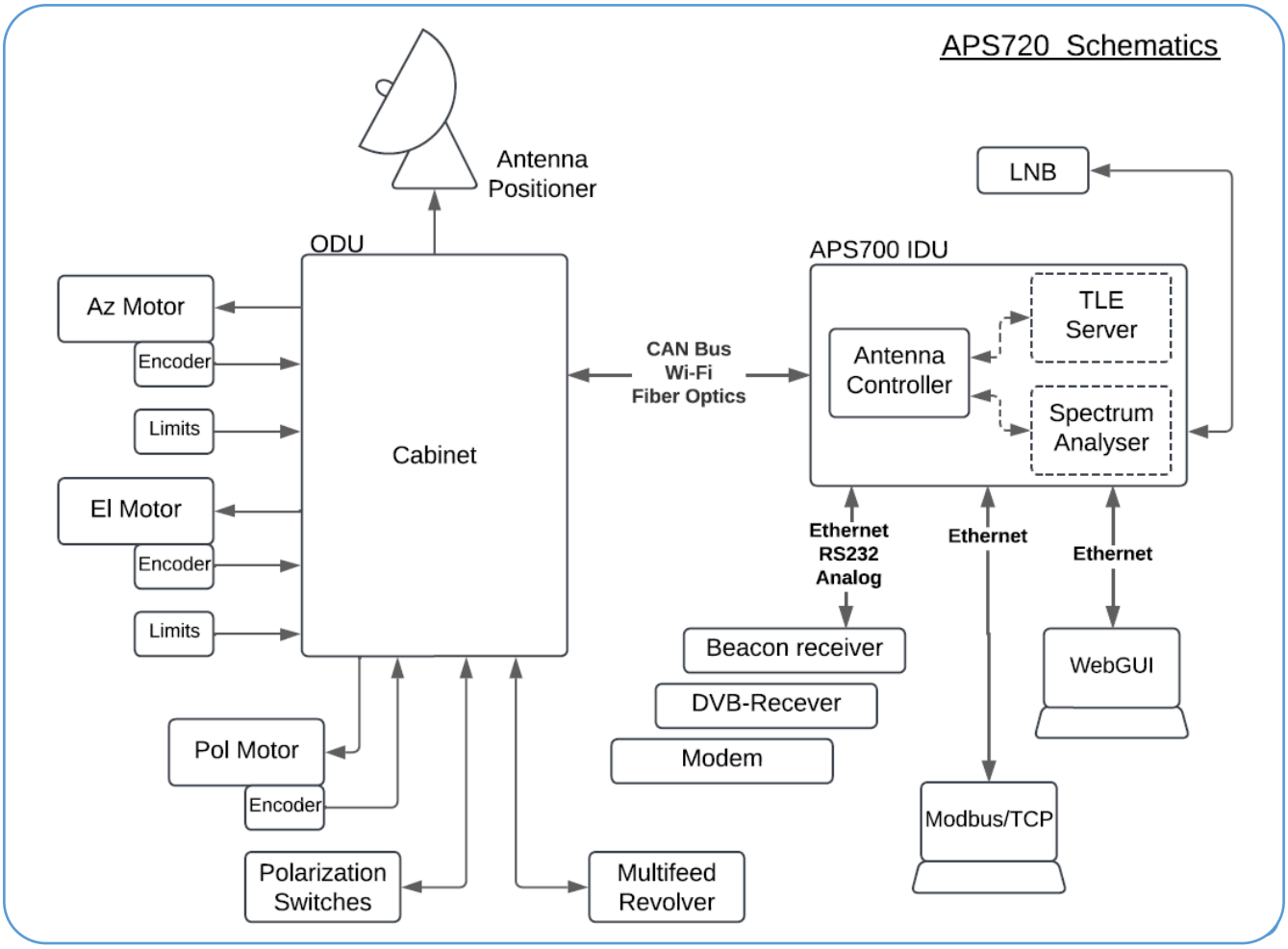
Features: Spectrum Analyzer

- Control via 7” Touchscreen
  - Optional via Keyboard/Mouse
- Spectrum Analysis and Verification
- Frequency and Span, LO Frequency and Amplitude setting
- Peak signal used for satellite tracking
  - Internal Signal peak transmission to APS700 Antenna Controller
- Remote control via Web GUI

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APS720 Antenna Control Unit with integrated Spectrum Analyzer



Dimensions			
Unit	**Size (L x H x D)**	**Weight**	**Power**
APS720 Indoor Unit	480 x 222(4RU) x 275mm	8 kg	88 - 264V AC, 47 - 63Hz Opt. 3 x 320 - 575 VAC(3-Phase)
Outdoor Unit	600 x 400 x 210mm *	30 kg *	88 - 264V AC, 47 - 63Hz Opt. 3 x 320 - 575 VAC(3-Phase)
Environmental			
	Temperature		**Humidity**
APS720 Indoor Unit	Operating: 0° to +55°C Storage: -20 to +70°C		85% (non-condensing)
Outdoor Unit	Operating: -20° to +60°C Storage: -30 to +70°C		100% (condensing)

* Dimensions & Weights depending on application

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