APS700/710 Antenna Control Unit

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 APS700 Antenna Control Unit. 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 APS700 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

- 4RU Indoor Unit with 7" Touchscreen
- Industrial grade PLC with 800 MHz ARM Cortex A9 CPU and 256 MB RAM + 256MB Flash
- 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





Optional Equipment:

- TLE server: Find and track satellites based on TLE Data
- DVB-S2 Receiver (APS710): Signal Tracking of Geostationary and Inclined Orbit satellites

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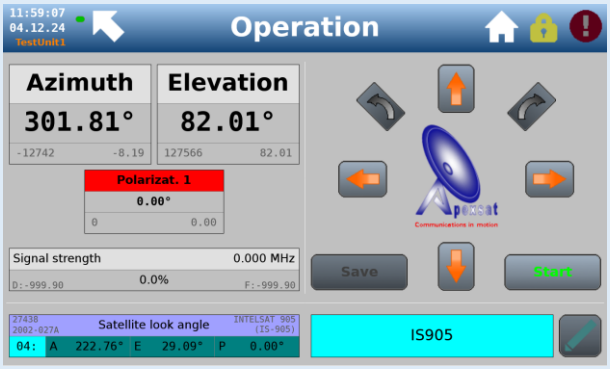
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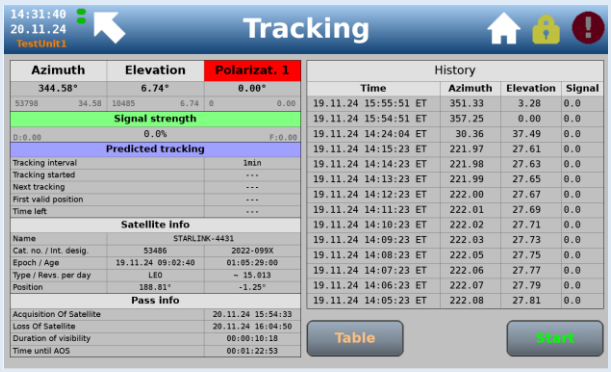
- Outdoor Cabinet with integrated climatization and power supplies
- Control of DC/BLDC Motors (24-60V, 700W).
- Interfaces with high precision, high speed and/or high-power servo motors(400V) with up to 15 kW peak.
- Uses integrated Motor and On Axis Encoders
- Precise Satellite positioning and tracking 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

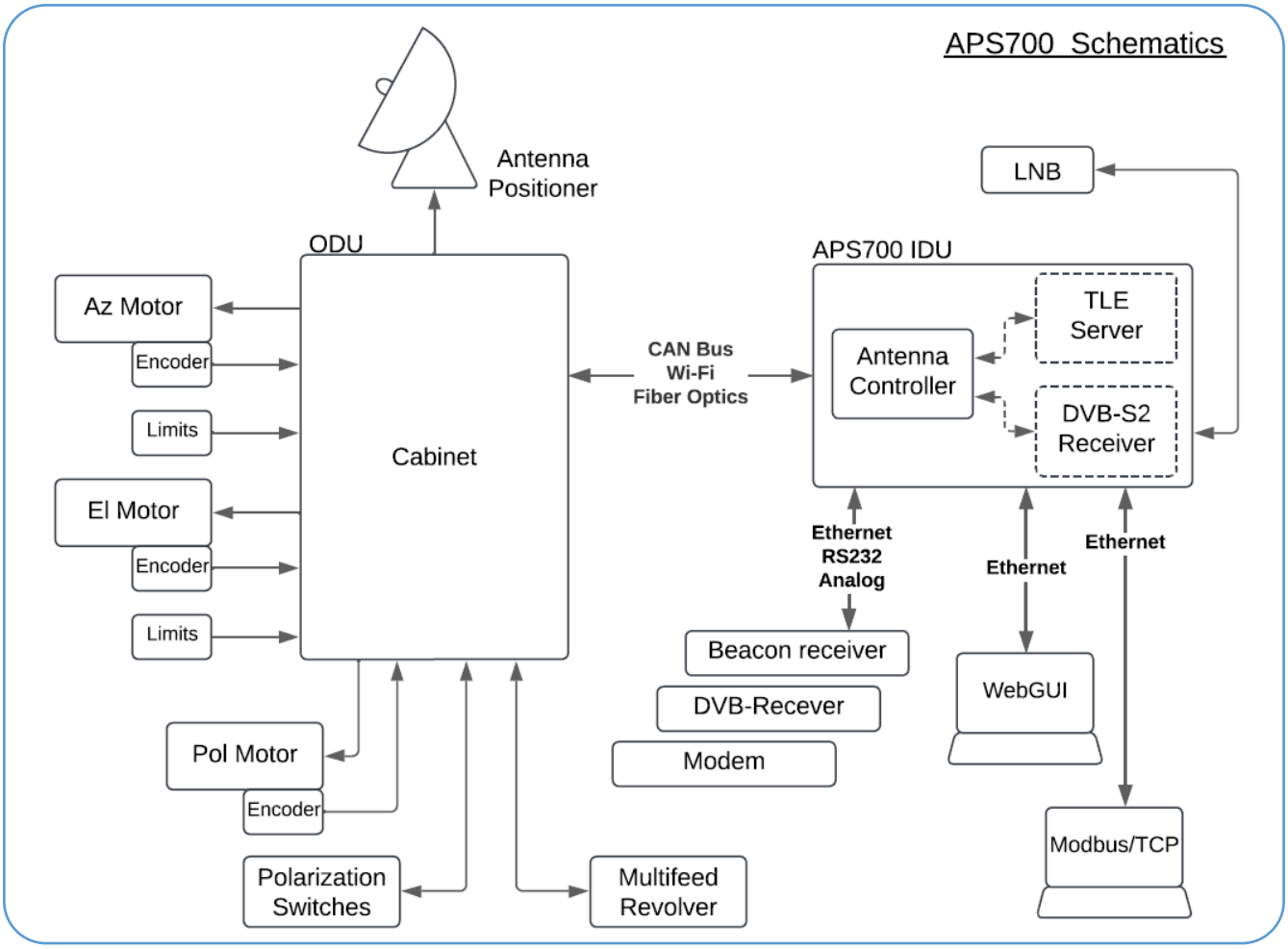
- Antenna Control via 7” Touchscreen
- Remote control via HTML5 Web GUI
- Network management via MODBUS over TCP
- Modem Communication via openAMIP
- 99 Satellite memory
- Manual Satellite positioning
- GPS based Satellite positioning
- (Opt.) TLE based Satellite positioning
- (Opt.) Signal based tracking based on different variable (Time, Signal, table Optimization)
  - Integrated DVB-S2 Receiver
  - 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





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Dimensions			
Unit	**Size (L x H x D)**	**Weight**	**Power**
APS700 Indoor Unit	480 x 176(4RU) x 140mm	5 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**
APS700 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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