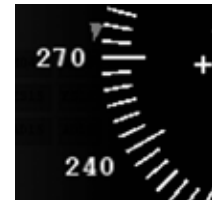
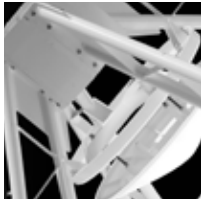


HITEC

LUXEMBOURG



HACU® IS A STATE-OF-THE-ART ANTENNA CONTROL UNIT (ACU) OFFERING HIGHEST TRACKING ACCURACY AND RELIABILITY, PERFECTLY SUITED FOR GEO AND NON-GEO APPLICATIONS.

The HACU® software is running on an industrial PC which requires 2 rack units and must be placed in a server rack in a shelter. The HACU® core software can be operated and configured both locally and remotely via a user-friendly client software. Depending on the required tracking modes of the antenna, HITEC Luxembourg can supply the HACU® with three different software versions: HACU® 1000, 2000 and 3000. All versions come with a user-friendly GUI-based client application for configuring and monitoring the ACU (locally or remotely) via its M&C interface.

For very critical applications, HITEC Luxembourg can equip the HACU® with redundant power supplies and/or redundant hard disks. As time reference the ACU can use NTP or can be equipped with an IRIG-B compatible time reference card. Furthermore, LNA monitoring is available on the HACU® 2000 and HACU® 3000 models.

Optionally, a 1U rack-mountable KVM can be provided. The HACU® can be complemented by a logging PC, which performs logging of all relevant ACU and antenna parameters over long durations and at sampling rates of up to 20 samples/s.

The HACU® can be used as subsystem of the HITEC antenna servo kit (HASK™).

KEY FEATURES

Three different HACU® solutions:

- HACU® 1000 - Program Track
- HACU® 2000 - Step Track
- HACU® 3000 - Monopulse

Software-based design guaranteeing:

- Comfortable installation
- Efficient use as refurbishment system, particularly in combination with HASK™

Modular design & easy customisation:

- Interfaces with various digital tracking receivers & LNA controllers
- Extensive logging capabilities

Running on industrial COTS hardware platform

Development based on Industry requirements and backed by the European Space Agency (ESA)

APPROVED SUPPLIER OF

ThalesAlenia
a Thales / Leonardo company Space

HITEC Luxembourg S.A.

☎ +352 498478 - 1 📠 +352 401303 ✉ info@hitec.lu 🌐 www.hitec.lu

📍 49, rue du Baerendall - L-8212 Mamer







FEATURES OF HACU® SOLUTIONS

	HACU® 1000	HACU® 2000	HACU® 3000
ACU client application	✓	✓	✓
Standby mode	✓	✓	✓
Pointing mode	✓	✓	✓
Slew mode	✓	✓	✓
Program track mode	✓	✓	✓
Scan mode		✓	✓
Step track mode		✓	✓
Monopulse mode			✓
Monopulse calibration mode			✓
Adaptive track mode		✓	✓
Autotrack mode		✓	✓
Stow/unstow mode (optionally stow pin control)	✓	✓	✓
Manual mode (PMCU)	✓	✓	✓
Mechanical error correction (e.g. from tilt sensor)	✓	✓	✓
Atmospheric refraction error correction	✓	✓	✓
LNA monitoring		✓	✓
RF switches monitoring and control	✓	✓	✓
Polarization axis control	✓	✓	✓

OPTIONS

KVM	1U rack-mountable keyboard-video-mouse module
Logging PC	High-performance logging application allowing very fast logging of all relevant ACU and antenna parameters over long periods of time
Time reference	Local oscillator, NTP, IRIG-B
Redundancy	Hard disks and / or power supplies
LNA monitoring	RSC-1200 from General Dynamics, LN2 series from Miteq
DTR interfacing	Steptrack: DTR from General Dynamics, STR from ELTA, PTR50 from Peak Communications Monopulse: 253 and 500 from General Dynamics, DTR from Zodiac Data Systems, TR70 from ELTA

HARDWARE SPECIFICATION

 Power supply	100/240 VAC (autorange) 50/60 Hz	 Temperature range	5°C to 50°C
 Rack Space	2U	 Protection class	IP20 (rear) / IP41 (front)
 Depth	444 mm	 Net weight	17 kg



For more information contact your HITEC Luxembourg representative:

+352 498478 - 1 +352 401303 info@hitec.lu
www.hitec.lu 49, rue du Baerendall - L-8212 Mamer