



Hiltron products

Shortform catalogue



Hiltron Communications headquarters

Hiltron Communications operates from modern purpose-built headquarters based in Backnang near Stuttgart. On-site facilities include a purpose-designed integration area for ground systems, large antenna solutions and SNG vehicles. We also have our own satellite antenna test range.

Customers can rely on our specialist knowledge of the various products available on the market.

We invite you to contact us if you have technical questions or if you require support in the design and selection of equipment.

Hiltron offers a wide range of customer-focused services, covering every aspect of the modern satellite communication business.

Facts about Hiltron:

- ▶ Founded 1979
- ▶ Located in Backnang, Germany
- ▶ 20 employees, primarily engineers and technicians
- ▶ Have our own R&D department
- ▶ Member of Dan Technology Group since 2011

HMAM - Hiltron Motorised Antenna Mount

High Speed three Axis Antenna Mount

High precision satellite antenna positioner for use in professional satellite communication systems.

Combining affordability with the reliability and precision expected from professional-grade communications equipment.

Features

- ▶ All kinds of reflectors with a diameter between 1.2 and 2.7 meters can be attached.
- ▶ Three axis motorized system with >180 degrees of continuous azimuth adjustment.
- ▶ 90 degrees of elevation adjustment range.
- ▶ Fully adjustable polarization.
- ▶ Positioning accuracy is up to $\pm 0.02^\circ$ (depending on temperature and wind load).
- ▶ IP-based control from a PC running a graphical user interface compatible with standard web browsers.
- ▶ Integrated database for potentially accessible satellites.
- ▶ Ethernet interface and control via SNMP for M&C.
- ▶ The ACU and the associated motor-control electronics are contained in a weatherproof outdoor housing.



HMFC - Hiltron Movable Dual Feed Control

for Hiltron Motorized Satellite Antenna Mount

The Hiltron HMFC is a high quality motorized dual feed system, mounted on a movable tray table.

The system always provides optimal antenna gain by positioning the selected feed system to the focal point of the corresponding frequency band.

Features

- ▶ Sequential measurement of different frequency bands depending only on the feed.
- ▶ Automatic change of the operational feed.
- ▶ Speed to change the feeds below 20 sec.
- ▶ Positioning accuracy of the antenna is up to $\pm 0.02^\circ$ (depending on temperature and wind load).
- ▶ IP-based control from a PC running a graphical user interface compatible with standard web browsers.
- ▶ Integrated database for potentially accessible satellites.
- ▶ Ethernet interface and control via SNMP for M&C.
- ▶ The ACU and the associated motor control electronics are contained in a weatherproof outdoor housing.



HACU - Hiltron Antenna Control Unit for Positioning and Inclined Orbit Tracking

High precision satellite antenna control unit for use in professional satellite communication systems.

Features

- ▶ Antenna Control Unit for positioning of up to four axis motorized antenna systems.
- ▶ All axis can be controlled and moved simultaneously.
- ▶ IP-based control from a PC running a graphical user interface compatible with standard web browsers.
- ▶ Integrated database for storage of potentially accessible satellite parameters.
- ▶ Fast positioning with three different speed steps.
- ▶ Ethernet interface for monitoring and control via SNMP.
- ▶ Serial interface for extensions, e.g. wind sensor.
- ▶ The ACU and the associated motor-control electronics are contained in a weatherproofed outdoor housing.



Options

- ▶ Extension to a satellite tracking system.
- ▶ Interface for 17 bit optical SSI encoders.
- ▶ Inclined orbit tracking.
- ▶ Handheld control unit for manual pointing.
- ▶ Integral control of third party beacon receivers.

HCS - Hiltron Universal Control Unit Flexible fully modular controller

Universal Ultra Flexible fully modular Controller (2 RU) for monitoring, control, supply and redundancy switching in different control applications for Satellite Earth Station Equipment.



Features

- ▶ Monitoring and power supply for fiberoptic modules.
- ▶ Controller for N:1 redundancy switching.
- ▶ Monitoring and power supply for LNA/BDC/LNB/BUC.
- ▶ All modules hot swappable.
- ▶ Controller for N:1 redundancy HPA switching.
- ▶ Controller for redundancy systems for DVB MPEG encoders/modulators/IRDs and other applications.
- ▶ Monitoring of status messages.
- ▶ Integration of serial controlled equipment into IP world.
- ▶ 19"/2U chassis.
- ▶ Redundant power supply.
- ▶ Web based user friendly operator interface (Web Interface HTTP).
- ▶ Control via SNMP for M&C.
- ▶ Serial Interface for extension.

Options

- ▶ It is possible to supply a reduced cost version without the LCD display. In this case, only remote control is available.

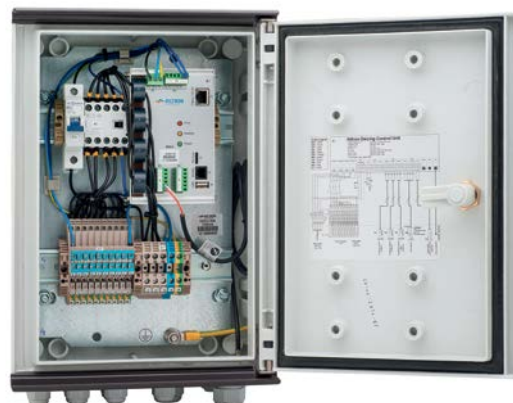
HDCU - Hiltron De-icing Control Unit

Web-based Antenna De-icing System

Combined De-icing sensor and dish heating system for direct control of small to medium satellite antennas.

Features

- ▶ 230 V single phase or 400V three phase supply.
- ▶ Three dedicated circuits for heater control to connect up to three pads per circuit.
- ▶ One additional circuit for feed or sub-reflector heater control (230 VAC).
- ▶ One circuit for feed heater control (24 VDC).
- ▶ Heater current control and protection.
- ▶ Max. current per segment (phase) 20 A.
- ▶ Processor controlled de-icing with sensors.
- ▶ Ethernet interface for M&C.
- ▶ Web based user friendly operator interface.
- ▶ Control via SNMP.



Options

- ▶ Logical control inputs and outputs for manual remote operation.

HDCU-E - Hiltron De-Icing Control Unit

Web-based Antenna De-Icing System (extended)

A combined de-icing sensor and dish heating system for direct control of big satellite antenna dishes to cover the required high power demand with electric power consumption up to 200 kW for higher numbers of heater panels.

Features

- ▶ 3-phase supply operation with 400 VAC.
- ▶ Three individual circuits (phases) for heater control to connect up to three pads per circuit.
- ▶ With four additional heater groups each consisting of 3 heater arrays with 3 heater circuits each. In total 36 heater circuits (pads or pads groups) can be controlled.
- ▶ One individual circuit for feed heater control (240 VAC).
- ▶ The permitted current for each heater circuit is max. 20 A (45 circuits max.).
- ▶ Heater current control and protection.
- ▶ Controlled switch-on and switch-off of individual heater pads.
- ▶ Processor controlled de-icing with four sensors.
- ▶ Ethernet interface for M&C
- ▶ Web based user friendly operator interface.
- ▶ Control via SNMP.



Options

- ▶ Optional logical control in- and outputs for manual remote operation.

HMCS-MCR - Monitoring & Control System

Unique Solution for Master Control Room

HMCS-MCR is a modular and scalable package of our universal M&C System. It is designed to control all relevant Satellite equipment in your MCR, optimized for occasional use applications.

The application is focused on providing user friendly control of different equipment for operators in Master Control Rooms.

Features

- ▶ All relevant information at one glance.
- ▶ Management of different Encoder, Modulator and HPAs.
- ▶ Interfaces to higher-level systems (SNMP, XML).
- ▶ Management of Tx and Rx chains including redundancy switching.
- ▶ Uniform management of different equipment same type (e.g. receivers with different versions).
- ▶ Selection and storage of different satellite parameters (satellite position, beacon frequency, transponder/slots etc.) database supported.
- ▶ Database supported profiles for satellite reception (IRD settings).
- ▶ Database supported profiles for satellite transmission (Modulator, Encoder, HPA settings).
- ▶ Plausibility check and control (in case of wrong parameter settings).
- ▶ Selection of different sources via matrix.
- ▶ Management of motorized and fixed antennas.
- ▶ Logging of all processes, alarms, events.
- ▶ Logging of parameter and status data and graphical presentation.
- ▶ Customization.
- ▶ Platform-independent client / server system.



Hiltron Premium Line D-SNG Platform

Comprehensive Satellite Communication System

The Hiltron DSNG platform integrates the complete SatCom equipment including third party equipment (e.g. Encoder Modulators and IRD's) in a unified database control system.

The System provides Reliability, flexibility as well as a quick, intuitive and fail safe control system.

Features

- ▶ Robust and reliable cable drive mounts (maintenance free).
- ▶ Rotary Joints for all axis.
- ▶ +/- 200° Azimuth range.
- ▶ Hiltron designed waveguide system.
- ▶ 230V/12V dual power supply for antenna drive.
- ▶ 3-axis Hiltron SNG antenna controller.
- ▶ GPS locked-Auto Acquisition.
- ▶ Integrated DVB-S/S2 receiver - SAT ID via NIT tables.
- ▶ Dual axis compensation of vehicle tilt and inclination.
- ▶ Front Panel control and Web Interface.
- ▶ Hiltron M&C System, features see HMCS-MCR above.

Options

- ▶ Three different Antenna sizes (1.45m / 1.8m / 2.4m).
- ▶ 2, 3 or 4-port feed system.
- ▶ Spectrum Analyzer (1HU) fully integrated in M&C system.
- ▶ Three HPA configurations
 - Single Thread
 - 1:1 Redundancy
 - Phase Combined
- ▶ SSPA up to 250W
- ▶ TWTA up to 750W
- ▶ Customization to Your special requirements.



HILTRON Communications is a leading German System Integrator, Manufacturer and Distributor in the field of satellite and wireless communication.

Our customers can rely on our profound knowledge of the various products available on the market. We expressly invite you to contact us if you have technical questions or if you require consultancy for a proper equipment selection.

▶ **HILTRON as System Integrator**

With our team of qualified satcom engineers we are in a position to implement complex turnkey systems:

- DVB-S/S2 Satellite Uplink Stations for TV, Radio and Data Transmission
- VSAT Systems
- TVRO Systems for Cable Headends or for Terrestrial Retransmission
- Fixed and Mobile Microwave Links for Broadcasting
- DSNG Systems
- Fibre Optic Systems in the L- and IF-Band
- DVB-T/T2 Encoding & Multiplexing Headends
- ATM/SDH/PDH/IP Transport Networks
- IPTV Headends (receive part)

▶ **HILTRON as Manufacturer**

This catalogue gives a first impression about the wide range of own manufactured products that we can implement in order to add value to the systems.

▶ **HILTRON as Distributor**

As business partner of world class manufacturers we are able to supply most of the components, devices and subsystems required for a satellite communication system.

▶ **HILTRON as Service Provider**

Hiltron offers a broad range of project management skills including turnkey system responsibility.

Together with its partner companies, Hiltron is able to offer additional services such a spare parts management, 24/7 on-site or on-line support, and factory or on-site training.



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