Hiltron ComSys-Core



Universal Ultra Flexible Highly Modular Controller for Different Control Applications for Satellite Earth Station Equipment



Features

- 19"/2U chassis with redundant power supply,
- or small chassis option with external 24V power supply.
- ► Any new or replacement module recognizes which slot it is located in and registers itself under this address.
- ► All modules are hot-pluggable and can be exchanged easily during operation.
- ► Each module possesses independent functionality. The communication between the modules is maintained even when there is no network module in place.
- Web based user-friendly operator interface (Web Interface HTTP).
- Control via SNMP for M&C.
- ► Serial Interface for extension.

Applications

- ► Controller for N:1 redundancy HPA switching.
- Monitoring and control of SSPAs, switches.
- Controller for N:1 redundancy switching of up-converters.
- ► Monitoring and power supply for LNRs
- Control of redundancy systems for DVB MPEG encoders/modulators/IRDs and other applications.
- ► Monitoring and control of antennas.
- Monitoring and control of antenna heating.

Available Modules

- ► HCS.NET Module for network communication, LAN interface, controller.
- ► HCS.SSI Module for antenna control with interface for 17 bit optical SSI encoders.
- ► HCS.RES Module for antenna control with interface for resolver transducer.
- ► HCS.DCD Module for control of electronic motors and monitoring with resistive sensors.
- ► HCS.DCU Module for antenna heating control.
- ► HCS.PSD Module for DC power supply, e.g. used in chassis with 8 slot.
- ► HCS.PSA Power Supply for 19"/2U chassis.
- HCS.EXT Module with serial interface, power supply for LNAs, monitoring and control of HPAs, SSPA and other equipment (e.g. up-converter).
- ► HCS.SWI Module for monitoring and control of WG- and coax-switches.
- ► HPA.LST Module with integrated L-band transfer switches.

Since 1996 Hiltron has been manufacturing control units for SatCom equipment and for industrial control & monitoring applications. One of the main products is the Controller HCS3 with its unique features. The existing design has been upgraded to a new controller generation ComSys-Core with additional new features.

The new generation combines all the previously available systems in a base system ComSys-Core. Depending on the different applications a variety of modules are available to be integrated into a functional unit. There are two types of chassis available, the 19"/2U equipped with up to 16 modules (16 slots) and a small chassis equipped with up to 8 modules (8 slots) suitable for cabinet installation.

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Specification for ComSys-Core (19"/2U Chassis)

General

Application: Monitoring & Control of switches, LNBs, HPA, Antenna Control units,

Antenna Heating systems etc.

HCS.NET, HCS.SSI, HCS.RES, Interfacing card modules:

HCS.DCD, HCS.DCU, HCS.PSD,

HCS.PSA, etc.

Hot swappable Module handling

Electrical

Interfaces:

Power Supply: Redundant

- Power Requirements: 95 - 245 VAC. 47 - 63 Hz. PFC

- Power Consumption: Max. 1A at 230V

(depending on configuration)

- Max. output power: 90 W

Monitoring & Control

Remote Control: Web Interface TCP/IP, RJ45 10/100 Base-T, SNMP

- LAN interface: Ethernet / IEEE802.3U

Data transfer rate: 10/100 Mbit/s

Connector: RJ45

Communication: Web / SNMP

- RS422 interface: Type: RS422

> Connector: Sub-D 9 m Baud rate etc.: configurable

Mechanical / Environmental

Width: 19" rack-mountable

Height: 89 mm (3.5", 2U) Depth: 500 mm (20", including

connectors)

Weight max. 10.5 kg

Temperature

- Operating: 0°C to +50°C - Non-operating: -20°C to +80°C

Humidity

Immunity

- Operating: 5% to 95% non-condensing - Non-operating: 0% to 100% non-condensing

CE safety EN60950-1 / UL 60950 CE EMC EN 55022 Class B EN 61000-3-2, -3 **Emissions** EN 50082-1

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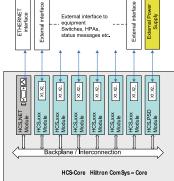
Hiltron ComSys-Core:

Schematic Diagram of System implemented in 19"/2U chassis with 16 modules

HCS-Core Hiltron ComSys - Core

capability.





Hiltron ComSys-Core:

Schematic Diagram of System implemented in chassis with 8 modules capability.