Universal Ultra Flexible Controller for Fiber optic Modules of FOXCOM SAT-LIGHTTM Series Satellite Earth Station Equipment

HCS3 Universal Economic Ultra Flexible Controller for SatCom

The HCS3 is a highly modular controller for fiber optic modules of the FOXCOM SAT-LIGHT Series. Due to its high flexibility it is also used as a controller for N:1 redundancy switching of satellite earth station equipment.

Since 1996 Hiltron has been manufacturing control units for SatCom equipment and for industrial control & monitoring applications. Our main product is the Controller HCS3 with its unique features. The Controller HCS3 is very high flexible due to the variety of different modules and can be tailored easily to different applications. This controller is specially configured for monitoring, control and power supply for fibre optic modules.

- The mainframe of the HCS3 controller is a 19"/2U chassis. Normally a front panel control is provided via a touch-sensitive LCD display type HCS3.TS. Alternatively, the controller can be delivered without the LCD display.
- As a standard, the controller is equipped with two hot-pluggable AC power supplies units with IEC320 mains connectors located at the rear for power supply redundancy. As an option, DC power supplies (24/48 VDC) are also available.
- Two communication card modules type HCS3:PSC in slot A1 and A13 provide each a RS422 serial interface for remote control. Alternatively, slot A1 can be equipped with a network interface card (NIC) module type HCS3.PSN instead of HCS3.PSC providing both an Ethernet interface and a serial interface. In addition, it is possible to renounce on the LCD display for cost reasons. In this case, only remote control is available.
- The remaining 11 interface connection slots (A2 to A12) can be equipped with different hot-pluggable functional card modules. For driving FO Tx/Rx modules the HCS.IOx (input/output) module are required and used. The control function can be enhanced by using switch card modules for redundancy configuration.

Features

monitoring and power supply for fiber optic modules

controller for N:1 redundancy switching of fiber optic modules

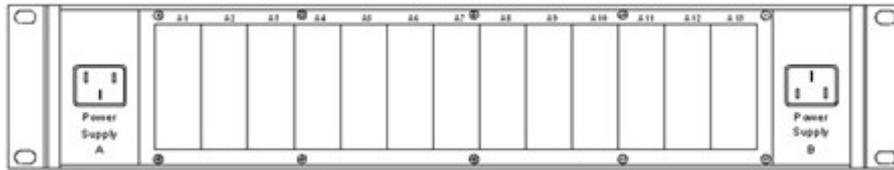LNB power supply

19"/2U chassis

redundant power supply

Web Interface TCP/IP

serial Interface for remote control

Options

touch sensitive LCD display

SNMP control interface

The figures show the rear view of the controller with its (13) slots for the
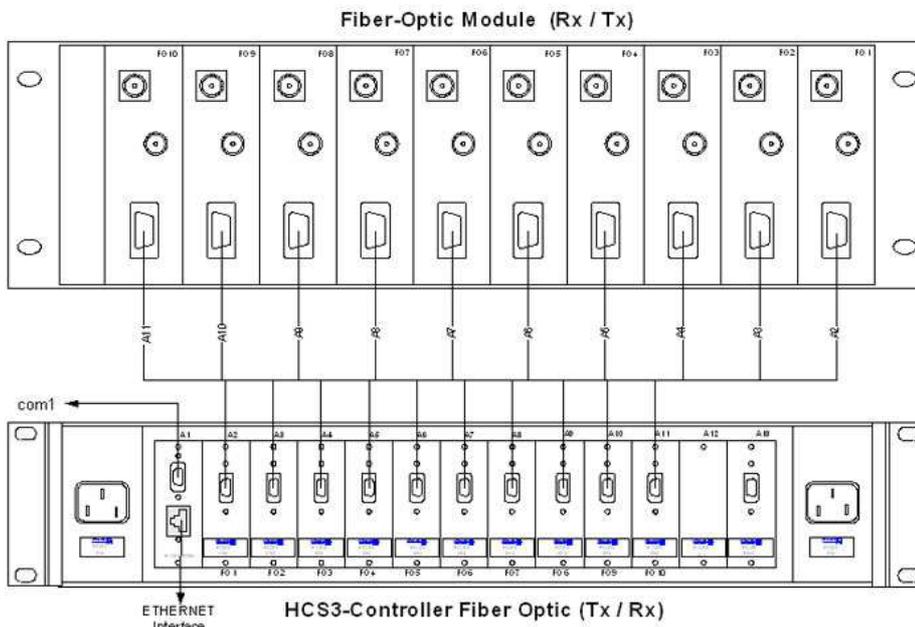HCS3.xxx modules. (xxx defines the module type.)

Fiber-Optic Module (Rx / Tx)

com1

ETHERNET
Interface

HCS3-Controller Fiber Optic (Tx / Rx)

The figure show the interface HCS3 FO Controller and the Chassis with the FO
Tx/Rx modules. Each HCS3.IO – module is connected to its FO Tx/Rx module
by a cable with 9P Sub-D connectors. The HCS3.IOx - module supplies, controls
and monitors the FO Tx/Rx module.

Specifications

Monitoring & Control of	max. 10 FO transmitter/ receiver modules of SatLight series Module Types: 7000, 7225, 7310, 7320, 7410, 7490, 7830, 7870
Interface to FO modules	DB-9 female (cabling 1:1)
Module handling	hot swapable
Power Supply	redundant
Power Requirements	95 – 245 VAC 47 – 63 Hz, PFC
Power Consumption	max. 1A at 230V (depend. on config.)
Max. output power	90 W

Local Control (option)	Touch Screen
	  Width: 128 Pixel LCD
	  Height: 64 Pixel LCD
	  Touch field: 8 x 4 Pixel

Remote Control	- Web Interface TCP/IP RJ45 10/100 Base-T - RS422 - SNMP (optional)
Size	Width: 19" rack-mountable Height: 89 mm (3.5", 2U) Depth: 500 mm (20", including connectors)
Temperature	Operating: 0℃ to +50℃ Non operating: -20℃ to +80℃
Humidity	Operating: 5% to 95% non condensing Non operating: 0% to 100% non condensing
Weight	10,5 kg

Order Information

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