



# RF Over Fiber Systems Horizons Controller

## HRC-3 SNMP & Control Card

- HTML GUI Interface
- SNMP v1 and v2C compatible
- Built-in 3 port Ethernet switch
- DWDM and CWDM
- Hot swappable card
- Software and inventory management
- Auto card configuration



The ViaLiteHD HRC-3 rack card can be installed into the standard ViaLiteHD 19" rack shelf to monitor, log and raise alarms when events occur. The HRC-3 card utilizes SNMP protocol to communicate over Ethernet with the Horizons software package. If required, direct management of the HRC-3 is possible via a web browser, serial or CLI connections.

The HRC-3 card gives control of RF over fiber and all other card types installed in the same 19" rack chassis, as well as allowing LAN connectivity to additional HRC-3 cards and other Ethernet devices.

- Real-time monitoring and control of all ViaLiteHD modules and power supplies
- Multiple port options, up to 2x fiber and 1x Ethernet, 1x fiber and 2x Ethernet or 3x RJ45 Ethernet
- Easy integration with 3rd party Network Management Systems (NMS)
- All alarm information immediately accessible via any web browser or NMS
- Displays operational status, voltage, temperature and link status of installed cards
- Remote software update and inventory management

The built-in graphical user interface can be accessed from any standard web browser using the IP address of the HRC-3 card. Alternatively, the Horizons application can be used to monitor the same information.

The screenshot displays several monitoring panels:

- Monitoring:** Shows real-time data for Supply Voltage (11.51 V), Laser Bias (46.64 mA), Laser Power (4.50 dBm), RF Power (-29.38 dBm), RF Gain (-11.88 dBm), RF Input (-11.88 dBm), Ext. Current (0.30 mA), and Ext. Voltage (1.87 V).
- Status:** A color-coded grid showing VOLT (Green), Laser (Green), Optical Power (Green), RF Power (Green), Ext. Voltage (Green), Ext. Current (Green), RF Gain (Green), and Temperature (Green).
- Monitoring:** A dropdown menu with options for Control and Alarm Thresholds.
- Event Log:** A table listing various events such as Tx Temperature Alarm Cleared, Supply Voltage Alarm Cleared, Feed Current Alarm, RF Gain Alarm, RF Liner Alarm, Automatic Gain Control (AGC) Alarm, Laser Alarm, Tx Temperature Alarm, and Supply Voltage Alarm, each with a status indicator (Green, Yellow, or Red).

## ADVANTAGES

- Monitoring and Control of any ViaLite RF or support products
- Can be used in installation and test as well as operation
- User-definable Minor & Major alarm threshold
- User-definable RF & Optical alarm levels
- Maintenance mode for each module

## RELATED PRODUCTS

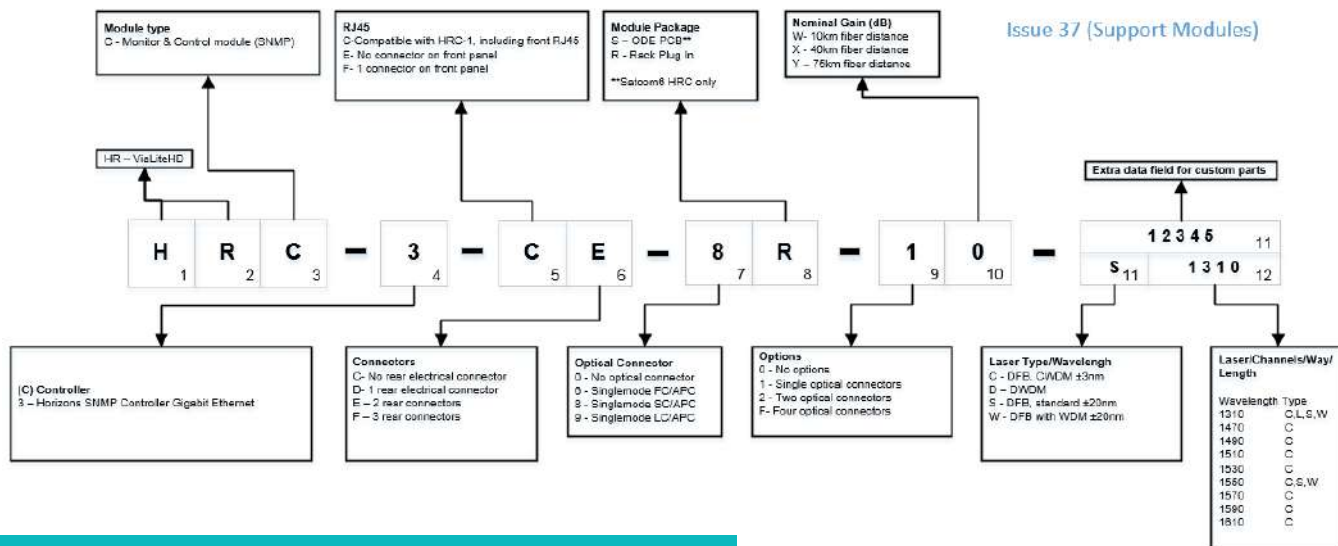
- C-Band rack card
- L-Band rack card
- RF Switch card
- Splitter Rack card
- PSU cards





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## PART NUMBERING AND OPTIONS



## TECHNICAL SPECIFICATIONS

Format  
Indicators

Plug-in module compatible with ViaLiteHD chassis, 7HP slot  
Front Panel LED "Power (RED/GREEN)"  
Front Panel LED "Rear RJ45 LINK (GREEN)"  
Front Panel LED "Rear Fibre LINK (GREEN)"  
RJ45 LED each with ACTIVITY (AMBER) and LINK (GREEN)

Electrical signal/power connector

Plug-in module, user accessible via 19" Chassis backplane

Module operating voltage

+12 V +/-0.5 V

Module operating power

4W Typical

Operating temperature

-10 °C to +50 °C

Storage temperature

-40 °C to +70 °C

Ambient relative humidity

10% to 95% (Non Condensing)

Maximum weight

300 g

RJ45 port

Up to 3 x 10/100/1000 MB/s (auto negotiating)

Network standards

10/100/1000 BASE-TX

Fiber port (SFP) Optional

Up to 2 x 1000 MB/s 1310 nm, 1550 nm, CWDM or DWDM

Fiber SFP Optional

Single-mode 9/125, Corning SMF28 or equivalent

Optical connector

LC/PC or FC/APC or E2000/APC or SC/APC or LC/APC

Optical power

-11 dBm typical, Class 1 (10 km) up to +3 dBm (75 km)

Serial Connector type

Micro-USB

Interface cable

Standard micro-USB cable

Serial data type

USB to RS232 Converter, 9600 bps, 8 data bits, 1 stop bit, no parity, no flow control

SNMP agent

Supports SNMP version 1 and version 2C

MIB

ViaLite proprietary MIB, RFC1213 compliant, supports MIB-II "system» group

Horizons SNMP Desktop App

Horizons SNMP application for Windows

HTTP Web Interface

Standard HTTP

