SNMP Network Monitoring Module – Quick Start Guide

Electrical Safety

The ***ViaLite*** 19" Rack Case power supply units are Safety Class 1 products (having a metal case that is directly connected to earth via the power supply cable).

When operating the equipment note the following:

- Hazardous voltages exist within the equipment. There are no user serviceable parts inside, and the covers should only be removed by suitably qualified personnel.
- The equipment does not have an isolating switch on the mains inlets. Equipment must be installed within easy reach of a clearly labelled dual pole mains isolation switch.
- Make sure that only fuses of the required rated current, and of the specified type (anti-surge, quick blow, etc.) are used for replacement.

Adjustment, maintenance and repair of the equipment should only be carried out by suitably qualified personnel.

For more information on the *ViaLite* range of products, please refer to the *ViaLite* system handbook Lxx-HB included on the CD-ROM.
For more information on the SNMP module, please refer to the LRC-1 handbook included on the CD-ROM.

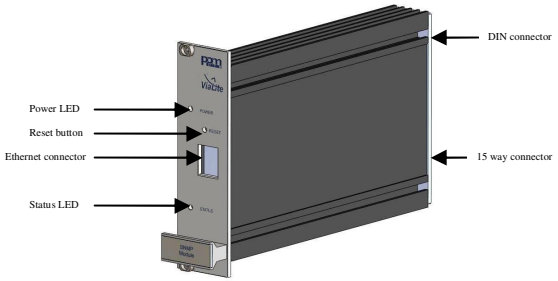
Unit installation

The SNMP module must be inserted into position 8 (immediately to the left of the power supplies) as shown in the picture below. Push in the unit firmly into the slot and then fix the module into place using the 2 fixing screws.

Position 8

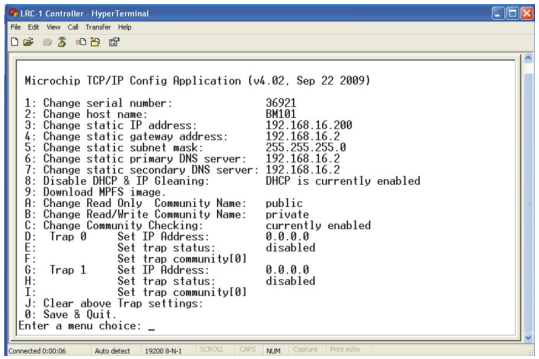
Module connectors and indicators

There are two LEDs on the front panel. The power LED lights green when the module is powered. The status LED flashes periodically during normal operation. If the module enters its configuration mode the status LED will be OFF. The reset button is used to enter the configuration mode or to initialise the module. The Ethernet connector on the front panel is used to connect the module to the local Ethernet network, or a laptop/PC so alarm parameters can be monitored during normal operation.
The DIN connector on the rear side of the unit connects the unit with the backplane of the ***ViaLite*** rack. The 15-way connector is used to connect the programming cable for module initialisation or to connect a second rack or for external alarm inputs.



Configuration

To set up the LRC-1 you need the configuration cable (73693 supplied with the module) and a laptop/PC with a spare USB port and terminal emulation software installed (e.g. Windows HyperTerminal). Connect the configuration cable to the USB port of the laptop/PC. You are now ready to configure the LRC-1 module. Connect the configuration cable to the 15 way connector on the rear side of the LRC-1 module and press the Reset button on the front of the unit. The configuration menu should appear in the terminal window, as shown on the next page.



Enter a menu choice to set up the appropriate IP parameters (specific IP values for your installation **MUST** be obtained from your network administrator). When this configuration is complete the changes must be saved to take effect. Do this by selecting the 'Save and Quit' option '0'.

Note: Disconnect configuration cable after setting up the module and press the reset button, the status LED will flash continuously.

Unit Operation

The LRC-1 enables monitoring of the ***Vialite*** LRK-1S and LRK-2S racks via SNMP or using a web browser and can collect alarms from one or two racks. An additional monitoring cable is necessary to collect alarms from the second rack. This cable is not supplied with the unit but is available as an option, part number 73694. To start operation connect the unit to the Ethernet network or a laptop/PC via the RJ45 port on the front panel. The LRC-1 is 10BaseT compliant device.

Note that *ViaLite* Ethernet modules LSX-E2-6R and LSX-E2-7R are 100BaseT only devices. Should the LRC-1 be used in conjunction with these modules, an Ethernet switch compatible with both standards is required to connect the LRC-1 and Ethernet modules together.

Monitoring using a web browser

Simply type in the IP address allocated to the module during setup into your web browser and a web page with the monitored parameters will appear on the screen. Alarms for modules in slots 1 to 7 and the 2 power supplies can be monitored for the primary rack and for modules in slots 1 to 8 plus both power supplies for the secondary rack (where connected). The alarm for the LRC-1 itself in the primary rack is not available. Additionally, the DC voltage on the backplane and the temperature of the primary rack can be monitored. In the web browser a status '1' indicates an alarm is triggered or a module is not fitted to the slot, status '0' indicates no alarm. Refer to the specific rack or RF module handbook for a more detailed alarm description.

Note: If slots in the rack are not populated with RF modules the corresponding setting on the DIP switch (located on the backplane of the rack) should be set into position 'Module not fitted' to avoid generating an alarm due to the empty slot. Refer to the rack handbook for more detailed description of DIP switch settings.

Monitoring using SNMP

The MIB for the LRC-1 can be found on the CD supplied with the unit. Refer to the manual of your network management system (NMS) to find out how to integrate the MIB with your NMS.
Alarms for modules in slots 1 to 7 and the 2 power supplies will be reported over SNMP for the primary rack and for modules in slots 1 to 8 and both power supplies for the secondary rack. The alarm for the LRC-1 itself in the primary rack is not available.

Note: DC voltage and temperature are accessible via web browser monitoring only, not via SNMP monitoring.

15 way connector pinout

Pin no.	Description	Pin no.	Description	Pin no.	Description
1	Frame 2 Alarm 1	6	Frame 2 Alarm 6	11	Frame 2 PSU 2
2	Frame 2 Alarm 2	7	Frame 2 Alarm 7	12	Reserved
3	Frame 2 Alarm 3	8	Frame 2 Alarm 8	13	Reserved
4	Frame 2 Alarm 4	9	GND	14	Reserved
5	Frame 2 Alarm 5	10	Frame 2 PSU 1	15	GND

It is possible to use the 15-way socket on the back of the LRC-1 to input alarms from external equipment. If using the 15-way connector to input external alarms from other equipment the pin outs above should be used for reference with pins 1 to 8 and pins 10 and 11 being available to input external alarms. For reference when connecting to these pins the electrical structure of the pins is shown below.