



## SPECIFICATIONS

|                         |   |
|-------------------------|---|
| <b>ADSL2+ Interface</b> | ADSL over POTS<br>Supported Standards:<br>ITU G.992.1 – Annex A (G.dmt)<br>ITU G.992.2 – Annex A (G.lite)<br>ITU G.992.3 – Annex A ADSL2 (G.dmt.bis)<br>ITU G.992.3 – Annex L READSL2<br>ITU G.992.5 – Annex A ADSL2+<br>ANSI T1.413 Issue 2<br>Connector: RJ-11C (6-pin jack, inner pair)  |
| <b>ATM</b>              | Multiple Protocol over AAL5 (RFC2684)<br>ATM Forum UNI 3.1/4.0 PVC<br>Up to 16 Virtual Circuits<br>ATM Class of Service (UBR)<br>PPP over ATM (RFC2364)<br>PPP over Ethernet (RFC2516)<br>ATM F5 OAM  |
| <b>Compliance</b>       | FCC Part 15 Class A, EN 55022 Class A, EN 55024<br>EN 61000-3-2, EN 61000-3-3<br>ACTA/FCC Part 68, IC CS-03, AS/ASIF S043,<br>AS/ASIF S002<br>EN 60950, IEC 60950, UL/CUL 60950, AS/NZS 60950   |
| <b>Physical</b>         | Dimensions: 6.99 cm (2.75 inch) W x 10.80 cm<br>(4.25 inch) D<br>Operating Temperature: 0°C to 50°C (32°F to 122°F)<br>Relative Humidity: Up to 95 percent, noncondensing at<br>30°C (86°F)<br>Non-Operating Temperature: -20°C to 70°C (-4°F to<br>158°F)<br>Non-Operating Relative Humidity: Up to 95 percent,<br>noncondensing at 30°C (86°F)<br>Altitude: Up to 3.05 km (10,000 ft) |

## INSTALLATION INSTRUCTIONS

**Warning** For ProCurve Secure Router modules with outside plant connections, ensure that all cables are removed from the module before installing or removing it from the router chassis.

1. Remove power from the unit.
2. Slide the ProCurve Secure Router dl 1xADSL2+ Annex A Module into the option slot until the module is firmly seated against the chassis.
3. Secure the screws at both edges of the module.
4. Connect the cables to the associated device(s).
5. Complete the installation of the base unit.
6. Restore power to the unit.

## ADSL2+ (RJ-11C) PINOUT

| Pin | Name | Description |
|-----|------|-------------|
| 1-2 | —    | Unused      |
| 3   | R    | ADSL Ring   |
| 4   | T    | ADSL Tip    |
| 5-6 | —    | Unused      |

**Note** An optional backup module is required for backup applications.

For a description of the backup connection pinouts, refer to the *Quick Start Guide* included with your backup module

**Note** For safety information for the routers and all modules, please refer to the safety and ESD precautions in the **ProCurve Secure Router Installation Guide** included in your router shipment.

## ADSL2+ INTERFACE MODULE COMMANDS

### retrain

Forces the modem to retrain.

### snr-margin [showtime monitor | training monitor] <margin>

Enables monitoring and sets the minimum signal-to-noise (SNR) ratio during training and showtime. Use the **no** form of this command to disable monitoring.

**showtime monitor** Enables margin monitoring to retrain the ADSL interface if the specified minimum margin is violated during showtime.

**training monitor** Enables margin monitoring to retrain the ADSL interface if the specified minimum margin is violated during training.

<margin> Sets the minimum SNR margin in dB. Range is 1 to 15.

### training-mode [ADSL2 | ADSL2+ | G.DMT | G.LITE | Multi-Mode | READSL2 | T1.413]

Configures the ADSL training mode. This setting must match the training mode specified on the service provider DSLAM.

|                   |  |
|-------------------|--|
| <b>ADSL2</b>      | Specifies ITU G.992.3 Annex A mode.              |
| <b>ADSL2+</b>     | Specifies ITU G.992.5 ADSL2+ mode.               |
| <b>G.DMT</b>      | Specifies ITU G.992.1 Annex A mode.              |
| <b>G.LITE</b>     | Specifies ITU G.992.2 Annex A splitterless mode. |
| <b>Multi-Mode</b> | Specifies auto detect mode.                      |
| <b>READSL2</b>    | Specifies ITU G.992.3 Annex L mode.              |
| <b>T1.413</b>     | Specifies ANSI T1.413 mode.                      |

## ATM COMMANDS

### snmp trap link-status

Controls the SNMP variable, *ifLinkUpDownTrapEnable* (RFC2863), to enable the interface to send SNMP traps when there is an interface status change. Use the **no** form of this command to disable this trap.

## ATM SUB-INTERFACE COMMANDS

### access-policy <polycyname>

Applies a specified access policy (previously created using the (config)#**ip policy-class** command) to the inbound traffic received on the interface. Use the **no** form of this command to remove an access policy association.

<polycyname> Alphanumeric descriptor for identifying the configured access policy (all access policy descriptors are case-sensitive). Access policies are created using the **ip policy-class** command and descriptors are limited to 255 alphanumeric characters (spaces are not valid).

## ATM SUB-INTERFACE COMMANDS (CONTINUED)

### dynamic-dns [dyndns | dyndns-custom | dyndns-static] <hostname> <username> <password>

Configures Dynamic DNS service provided by Dynamic Network Services, Inc. (www.dyndns.org).

**dyndns** Allows you to alias a dynamic IP address to a static hostname in various domains. This service is provided for up to five hostnames.

**dyndns-custom** Gives complete control over an entire domain name. A web-based interface provides two levels of control (basic or advanced) over your domain. Custom DYNDNS can be used with both static and dynamic IPs.

**dyndns-static** Allows a hostname such as yourname.dyndns.org to point to your IP address. This service is provided for up to five hostnames.

### encapsulation [aal5mux | aal5snap]

Configures the encapsulation type for the ATM Adaption Layer (AAL) of the ATM Protocol Reference Model.

**aal5mux** Encapsulation type for multiplexed virtual circuits. Specify the data protocol on the circuit as **ip** or **ppp**.

**aal5snap** Encapsulation type that supports LLC/SNAP protocols.

### oam-pvc managed <frequency>

Enables end-to-end F5 Operation, Administration, and Maintenance (OAM) loopback cell generation and OAM management for an ATM interface.

<frequency> Time delay between transmitting OAM loopback cells. Range is 0 to 600 seconds.

### oam retry <up-count> <down-count> <retry-frequency>

Configures parameters related to OAM management for an ATM interface.

<up-count> Specifies number of consecutive end-to-end F5 OAM loopback cell responses that must be received in order to change a PVC connection state to up. Range is 1 to 255.

<down-count> Specifies number of consecutive end-to-end F5 OAM loopback cell responses that are not received in order to change a PVC state to down. Range is 1 to 255.

<retry-frequency> Specifies frequency (seconds) that end-to-end F5 OAM loopback cells are transmitted when a change in the up/down state of a PVC is being verified. Range is 1 to 600.

## Note

*This command list is an illustration of available commands. For complete command descriptions and default values, refer to the **SROS Command Line Interface Reference Guide** provided on your ProCurve SROS Documentation CD.*