SPECIFICATIONS

ADSL2+ Interface	ADSL over ISDN Supported Standards: ITU G.992.1 – Annex B (G.dmt) Connector: RJ-11C (6-pin jack, inner pair)
ATM	Multiple Protocol over AAL5 (RFC2684) ATM Forum UNI 3.1/4.0 PVC Up to 16 Virtual Circuits ATM Class of Service (UBR) PPP over ATM (RFC2364) PPP over Ethernet (RFC2516) ATM F5 OAM
Compliance	FCC Part 15 Class A, EN 55022 Class A, EN 55024, EN 61000-3-2, EN 61000-3-3 EN 60950, IEC 60950
Physical	Dimensions: 6.99 cm (2.75 inch) W x 10.80 cm (4.25 inch) D Operating Temperature: 0°C to 50°C (32°F to 122°F) Relative Humidity: Up to 95 percent, noncondensing at 30°C (86°F) Non-Operating Temperature: -20°C to 70°C (-4°F to 158°F) Non-Operating Relative Humidity: Up to 95 percent, noncondensing at 30°C (86°F) Altitude: Up to 3.05 km (10,000 ft)

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.*

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 B 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

Quick Start Guide
5991-2146
ProCurve Secure Router dl 1xADSL2+ Annex B Module
J8759A

ProCurve Networking
HP Innovation

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 [G.DMT | Multi-Mode]
Configures the ADSL training mode. Additional training modes listed for this module (G.LITE, T1.413, ADSL2, ADSL2+, READSL2) are for future implementation. These training modes are currently supported for ADSL over POTS.

G.DMT	Specifies ITU G.992.1 Annex B mode.
Multi-Mode	Specifies auto detect mode. This selection defaults to **G.DMT** (only valid training-mode for the module).

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.

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.*

ATM SUB-INTERFACE COMMANDS

access-policy *<policyname>*
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.

<policyname>	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).

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.