



### Small footprint routers for Small Offices and Telecommuters

#### Features and Benefits:

- Virtual Private Network (VPN) capabilities for secure, low cost networking
- Multiple variants to suit specific user requirements
- Permanent or dial up ISDN BRI connections
- Integrated security to protect LANs from unauthorized network access
- P850 uses auto-configuration to detect Frame Relay parameters for trouble-free connectivity
- Compatibility with other vendors' products via industry standard protocols
- Stac LZS data compression increases data throughput up to 600%
- POTS version saves phone line rental
- Lifetime warranty for security and peace of mind

#### Applications

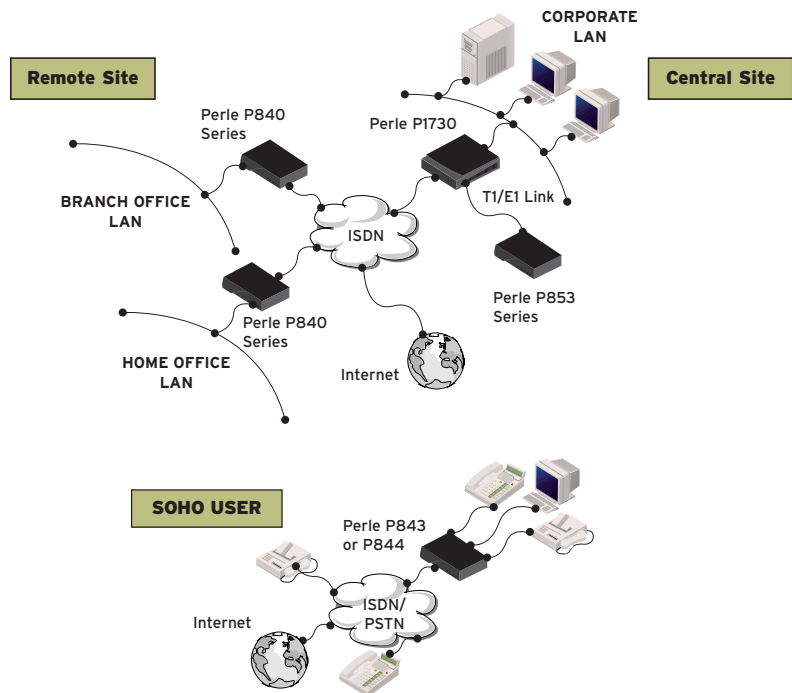
- Remote office access to control office
- Home office access to ISP and central office
- Small office with single ISDN link
- Internet Access

The Perle P800 Series of access routers offers the best network reliability and security for today's small offices and telecommuters along with an unrivaled cost of ownership.

#### Connectivity Options

The Perle P841 to P844 routers provide ISDN connectivity for small offices around the world. High data throughput and line management is maintained through data compression and bandwidth protocols to ensure the optimal and economic utilisation of BRI connections.

The Perle P841 to P844 routers include a low-cost entry-level model where up to 10 LAN users can access the Internet. These routers can be expanded with a software upgrade as the office needs grow.



The Perle P851 to P853 support synchronous serial connections for Frame Relay and Point-to-Point Protocol (PPP). At all speeds, the P850 routers optimize data transfer by monitoring for Frame Relay congestion. If necessary, the routers will scale back transmission to improve actual data throughput.

#### Security

Perle routers ensure data privacy with secure user authentication, firewalls, monitoring, configurable PPP security levels and other features. Optional VPN software ensures secured data gets to its intended audience and to no-one else.

#### Management

The Perle P800 Series routers support administrator management from a range of platforms and applications. By utilizing the Perle router configuration tools, such as the easy-to-use menuing system and the automatic self configuration of the Frame Relay and leased line interfaces, administrators can very quickly set up the routers at local and remote sites for immediate productivity.

#### Class Leading Service and Support

The Perle P800 Series are backed by the best service and support in the industry including Perle's unique lifetime warranty.

## Technical Specification

### Routing Protocols

- IP
- IPX (except P84x-10 products)
- RIP, RIP2
- SAP - (Convert SAP learned services to static)
- SAP - Spoofing
- Static ARP, Proxy ARP
- ICMP

### Bridging Protocols

- 802.3/Ethernet – Transparent MAC layer bridging
- 802.1D – Spanning Tree Protocol

### WAN Protocols

- PPP (PPP-ML)
- Frame Relay RFC 1490 (P850 Series)
- Frame Relay PPP encapsulation (P850 Series)

### Other Protocols

- UDP, TCP, TFTP
- Bootstrap Protocol Relay Agent (BootP Relay, DHCP Relay)
- DHCP
- BCP, CCP, BACP (P840 Series)

### Frame Relay (P850 Series)

- Support for up to 20 DLCIs
- LMI Support for Annex A (ANSI), Annex D (ITU), LMI Type, and None
- Default learning of LMI type
- Auto Learning of Frame Relay DLCIs

### Security

- NAT, NAPT, Reverse NAPT
- NetSAFE Firewall, PAP, CHAP
- VPN: IPSec, DES/3DES (optional)

### Network Management/Configuration

- SNMP, MIB II, Bridge MIB, Telnet, Local RS-232 console port
- Automatic Frame Relay configuration
- NetWizard automatic identification of other network routers, ISDN configuration

### Compression

- Stac LZS Compression

### LAN Interface

- 10BaseT, RJ45 (MDI, MDI-X)

### WAN Interface Options

#### P840 Series

- ISDN U
- ISDN S/T
- 2 POTS Ports (P843, P844)

#### P850 Series

- 56K/64K CSU/DSU
- T1/E1 CSU/DSU clear channel
- Universal WAN, DB 25 connector (V.35, X.21, V.24); use appropriate cable
- Automatic self configuration from default profiles

### WAN Speed

- Up to 2.048 Mbps (E1 Connection)

### Telecoms Approval

- NI-1 (North America)
- NET3 (CE Europe)

### Dimensions

- 5.75" x 4.3" x 1.25" (W x D x H)

### Weight

- 1 lb

### Temperature

- 36°F to 122°F

### Humidity

- 20% to 80% non-condensing

### Power

- 80-240 VAC 50-60Hz
- 20 watts maximum

### Warranty

- Limited lifetime warranty

### Maintenance Agreement

- To ensure rapid system recovery, express part replacement maintenance agreements are available for Perle hardware. Visit Perle's Web site for coverage details.  
[www.perle.com/support/service\\_sales.html](http://www.perle.com/support/service_sales.html)

### Free Software

- Perle provides free software upgrades to registered users via Perle's Web site.  
[www.perle.com/downloads](http://www.perle.com/downloads)

Visit the Perle Web site for up-to-date product support and technical information.  
[www.perle.com/products](http://www.perle.com/products)

### Ordering Information

For Product Codes and Model Descriptions, please visit Perle's web site at [www.perle.com/products](http://www.perle.com/products) and select Product Family Routers

## P800 Series Configurations

Standard Model	10 User Model	VPN Model	WAN Interface	Voice Ports
P841	P841-10	P841-V	ISDN BRI S/T	-
P842	P842-10	P842-V	ISDN BRI U	-
P843	P843-10	P843-V	ISDN BRI S/T	2
P844	P844-10	P844-V	ISDN BRI U	2
P851	N/A	P851-V	Universal WAN	-
P852	N/A	P852-V	56/64K CSU/DSU	-
P853	N/A	P853-V	T1/E1 CSU/DSU	-

Perle products available from:



**Perle Systems Inc.**  
565 Marriott Drive, Suite 850  
Nashville, TN 37214  
[www.perle.com](http://www.perle.com)

**Contact Perle**  
**Tel. 800 GO PERLE**  
**Fax 615 872 0771**  
**info@perle.com**

Perle products are constantly reviewed and updated to meet customers' needs, as such specifications and capabilities are subject to change without notice. We endeavor to keep product descriptions as current as possible; for the latest up-to-date information, please visit our web site at [www.perle.com](http://www.perle.com). Perle is a registered trademark of Perle Systems. All other product names are trademarks of their respective holders. Copyright©Perle.