

Routers - Draytek 2820N

ADSL2+ N wireless router with 2nd Ethernet WAN

The Vigor2820 is an ADSL2+ router with 2nd Ethernet WAN. This 2nd WAN can connect to DSL/Cable modem or fiber media converter for policy-based load-balance, fail-over and BoD; it also features advanced bandwidth control mechanisms such as IP-layer QoS, NAT Session Limitation, Bandwidth Borrowed, etc., to allow easy, flexible and reliable access control and bandwidth management.

With hardware-based implementation of the VPN protocol, the Vigor2820 supports up to 32 VPN tunnels using advanced protocols such as IPSec / PPTP / L2TP / L2TP over IPSec with AES / DES / 3DES for encryption and MD5 / SHA-1 for authentication.

The SPI firewall uses Object-Based design to make setting of firewall policies easy. The CSM feature allows more precise and efficient access control for URL / Web Content Filtering, IM and P2P applications.

Vigor2820 model complie with IEEE802.11n standards. They support WEP / WPA / WPA2, encryption and MAC Address Control, Wireless LAN Isolation, Multi SSID and 802.1x authentication. The Wireless Rate Control function can adjust the data rate of each wireless station (client). WDS can help users to extend wireless coverage easily.

Features:

1. ADSL Compatibility ANSI T1.413 Issue2

ITU-T G.992.1 G.dmt
 ITU-T G.992.2 G.lite
 ITU-T G.992.3 ADSL2 G.dmt.bis
 ITU-T G.992.5 ADSL2+
 Multi-PVC
 Annex L (READSL)
 Annex M

2. ATM Protocols (DSL) RFC-2684 / RFC-1483 Multiple Protocol over AAL5

RFC-2516 PPP over Ethernet
 RFC-2364 PPP over AAL5
 PPPoE Pass Through LAN / WLAN
 PPPoE / PPPoA Relay
 Transparent Bridge for MPoA

3. Dual WAN Outbound Policy-based Load-balance

BoD (Bandwidth On Demand)
 WAN Connection Fail-over

4. Wireless Access Point IEEE802.11n Compliant

Wireless Client List
 Wireless LAN Isolation
 64 / 128 bit WEP
 WPA / WPA2
 Hidden SSID
 Mac Address Access Control
 Access Point Discovery
 Multiple SSID
 Wireless Rate-control
 WMM (Wi-Fi Multimedia)
 WDS (Wireless Distribution System)
 802.1X Authentication *

5. VPN Up to 32 VPN Tunnels

Protocol :
 PPTP
 IPSec
 L2TP
 L2TP over IPSec
 Encryption :
 MPPE

Hardware-based AES
DES
3DES
Authentication
Hardware-based MD5
SHA-1
IKE Authentication :
Pre-shared Key
Digital Signature (X.509)
LAN-to-LAN , Teleworker-to-LAN
NAT-Traversal (NAT-T)
Dead Peer Detection (DPD)
VPN Pass-through

6. Firewall Policy-based Firewall

CSM (Content Security Management) for IM / P2P Application and URL / Web Content Filter
Multi-NAT / DMZ Host / Port-Redirection / Open Port
SPI (Stateful Packet Inspection) (Flow Track)
DoS / DDoS Prevention
IP address Anti-spoofing
E-Mail Alert and Logging via Syslog
IP and MAC Binding

7. Bandwidth Management QoS :

Class-based Bandwidth Guarantee by User-Defined Traffic Categories
DiffServ Code Point Classifying
4-level Priority for Each Direction (Inbound / Outbound)
Bandwidth Borrowed
Bandwidth / Session limitation

8. WAN Protocol (WAN2) DHCP Client

Static IP
PPPoE
PPTP
BPA
L2TP *

9. Network Feature Port-based VLAN

DNS Cache / Proxy
DHCP Client / Relay / Server
IGMP Proxy
Dynamic DNS
NTP Client
Call Scheduling
RADIUS Client
UPnP
Routing Protocol :
Static Routing
RIP V2

10. USB 3G USB Modem (3G only can act as WAN2)

USB Printer

11. Network Management Web-based User Interface (HTTP / HTTPS)

Quick Start Wizard
CLI (Command Line Interface , Telnet / SSH)
Administration Access Control
Configuration Backup / Restore
Built-in Diagnostic Function
Firmware Upgrade via TFTP / FTP / HTTP / TR-069
Logging via Syslog
SNMP Management MIB-II
TR-069
TR-104

12. Support Smart Monitor Up to 30 PCs