

## Draytek VigorIPPBX 2820 - Integrated IP-PBX & ADSL Firewall



Product Name: Draytek VigorIPPBX 2820 - Integrated IP-PBX & ADSL Firewall

Manufacturer: -

Model Number: VPBX2820N

Draytek VigorIPPBX 2820 - Integrated IP-PBX & ADSL Firewall

The Vigor 2820 is a high-performance quad-Gigabit WAN router for high-performance applications including remote access, firewalling, load-balancing and failover. Its WAN throughput runs at up to 1Gb/s, adequate for the most demanding SME applications.

Draytek Vigor 2820 IP PBX Key Features

- 1/2 Voice-over-IP PBX
- 1/2 ADSL Firewall/Router
- 1/2 802.11n WiFi
- 1/2 Up to 30 VoIP Extensions (local or remote)
- 1/2 Up to 6 SIP Trunks & 20 Channels
- 1/2 FXO Port (Analogue Line Interface)
- 1/2 Voicemail with personal user messages - New!
- 1/2 Remote Access to Voicemail - New!
- 1/2 Trunk/SIP Budget controls - New!
- 1/2 T.38 Fax support on analogue extension - New!

The WAN ports on the 2820 can provide load balancing or WAN failover. For multi-tenant or departmental flexibility, the Vigor2820 will support multiple LAN IP subnets, together with VLAN capabilities and user management, providing access to WAN resources only to the appropriate users or departments, as well as maintaining infrastructure efficiency.

VigorIPPBX 2820 Technical Specifications

Physical Interfaces:

- 1/2 1 X Gigabit Ethernet (1000Mb/s) Ports
- 1/2 3 X Megabit (100Mb/s) Ports
- 1/2 ADSL Port (RJ11)
- 1/2 Secondary WAN Port : 10/100 Base-TX Ethernet for load balance and WAN failover
- 1/2 USB Port for 3G Cellular Modem or Printer
- 1/2 1 Analogue Telephone Port
- 1/2 1 Analogue Line Port

IP PBX Features:

- 1/2 Up to 50 Extension profiles (user/phone accounts)
- 1/2 Up to 30 simultaneous registered extensions - local or remote
- 1/2 Up to 20 simultaneous calls
- 1/2 Registration and authentication
- 1/2 FXO Port (analogue line interface) fully integrated with PBX - New!
- 1/2 BLF (Busy-lamp Field)
- 1/2 Hunting Group with Overflow - New!
- 1/2 Selective CLI for outgoing calls - New!
- 1/2 IVR (Interactive Voice Menus for callers - Auto Attendant)
- 1/2 Call forwarding - to extensions or external PSTN - New!
- 1/2 Calendar
- 1/2 Dial Plan (Phone Book)

VoIP Protocols:

- 1/2 SIP, RTP/ RTCP

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- SRTP/ZRTP for VoIP Encryption for analogue phone port
- Up to 6 simultaneous SIP registrars (trunks)
- G.168 line echo-cancellation
- Automatic gain control
- Jitter buffer (180ms)
- Voice codecs : G.711, G.723.1, G.726, VAD/CNG, (iLBC Planned for future)
- DTMF tone : Inband / Outband (RFC-2833)/ SIP Info
- FAX/Modem support : Tone detection / G.711 pass-through / T.38\* for FAX

### Operating Requirements

- DHCP Client/Server
- DHCP Options
- Dynamic DNS Service Updating
- NTP Client
- DNS Cache/Proxy
- Static Routing

### NAT (IPv4):

- 100,000 Sessions
- Port Redirection
- One-to-One Public-to-Private Mapping
- MultiNAT

### VPN:

- Dial-in and Dial-out LAN-to-LAN
- Dial-in Teleworker

### Protocols

- PPTP
- L2TP
- IPSec
- L2TP over IPSec

### Encryption/authentication::

- Hardware-based AES (128, 192, 256 bits)
- Hardware-based DES/3DES (56 & 168 bits)
- MPPE (40 or 128 bits)
- Hardware-based MD5 & SHA-1
- IKE authentication : Pre-shared Key (PSK)
- PKI : X.509 Digital Signature (certificate)
- Certificate Server (CA) / Trusted CA / Local Certificate
- MOTP for Teleworkers
- Dead Peer Detection (DPD)
- VPN Passthrough : PPTP, L2TP, IPSec, SSL
- NAT Traversal (NAT-T)
- DHCP over IPSec
- GRE over IPSec

### Routing Functions:

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- IPv4 & IPv6 Dual-Stack
- Note : IPv6 is available on only a single WAN port
- DNS Cache/Proxy
- DHCP Client, Server & Relay
- DHCP Options: 1,3,6,51,53,54,58,59,60,61,66,125
- IGMP v1/v2 & Proxy/Snooping
- uPnP: 500 Sessions
- NAT: 80,000 Sessions
- NTP Client with DST Adjustments
- Static routing
- Policy-based routing
- Dynamic DNS : Updates DDNS servers with public IP address
- Port-Based VLAN
- Tag-Based VLAN: 802.1q
- Client/Call Scheduling : Real-time clock, with NTP updating schedules access or connectivity
- Wake-on-LAN : Passed from WAN to preset LAN device

### Traffic / Content Management:

- QoS (7/2 levels egress/ingress)
- DiffServ Codepoint Classifying
- Session & Bandwidth Limitation (IP-based)
- Globalview Categorical Web Content Filtering
- Web URL Keyword Blocking

### SSL VPN:

- Tunnel Mode : up to 200 Web Proxy Tunnels
- SSL Full tunnelling (firmware upgrade - schedule TBA)
- SSL Applications : HTTP (web), VNC, RDP
- Encryption : RC4 (128 bits), AES (128 bits), DES/3DES
- Digital Signature (X.509)
- Pre-shared key
- MOTP

### Management Facilities:

- Web Interface (HTTP & HTTPS)
- CLI : Telnet and SSH
- Firmware Upgrade : TFTP and HTTP
- Configuration Backup/Restore (Binary)
- Admin Access Control
- SNMP Management (MIB-II)
- Syslog
- TR-069
- Supported by Vigor-ACS Platform

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### Operating Requirements:

• Rack Mountable (Optional RM1 mounting bracket required)  
• Wall Mountable  
• Temperature Operating : 0°C ~ 45°C  
• Storage : -25°C ~ 70°C  
• Humidity 10% ~ 90% (non-condensing)  
• Weight : 1.2Kg  
• Power Consumption: 18 Watt Max.  
• Dimensions: L240.96 \* W165.07 \* H43.96 ( mm )  
• Operating Power: DC 15V (via external PSU, supplied). Max 21W.  
• Warranty : Two (2) Years RTB  
• Power Requirements : 220-240VAC

**Price: £435.00**

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