

## Draytek VigorPBX 2000 IPPBX & VDSL/ADSL Firewall



Product Name: Draytek VigorPBX 2000 IPPBX & VDSL/ADSL Firewall

Manufacturer: -

Model Number: VPBX2000

### Draytek VigorPBX 2000 IPPBX & VDSL/ADSL Firewall

The VigorBX 2000 is an IP PBX integrated with the firewall/router features of DrayTek's Vigor 2860 ADSL/VDSL router. As an IP PBX, instead of conventional phone lines, Internet SIP trunks provide your connectivity to the phone network. With IP phones, you have a complete office phone system, allowing for local and remote extensions (extensions can be anywhere on your LAN or elsewhere in the world). Calls can be transferred and distributed exactly as you wish, routed to a receptionist, groups or an automated attendant (IVR - "Press 1 for Sales" etc.) or to specific groups. The VigorBX 2000 supports up to 50 extensions, all with voicemail.

Draytek VigorPBX 2000 Key Features

- 1/2 Voice-over-IP PBX
- 1/2 VDSL2/ADSL2+ Firewall/Router
- 1/2 6-Port Gigabit Ethernet LAN Switch
- 1/2 Multiple Private LAN Subnets & VLANs
- 1/2 QoS (Layer 2 & 3, 802.1p & TOS/DCSP)
- 1/2 PBX Features Include:
  - 1/2 Up to 50 VoIP Extensions (local or remote)
  - 1/2 2 x FXO Port (Analogue Line Interface)
  - 1/2 FXS Analogue Phone Interface (with POTS failover)
  - 1/2 Voicemail (with remote & email access)
  - 1/2 Call Queuing
  - 1/2 Multi-Level IVR (Voice Auto-Attendant)
  - 1/2 VPN for LAN-to-LAN or teleworkers
  - 1/2 802.11ac WiFi ('VigorBX 2000ac' only)
  - 1/2 Optional VigorCare Available
  - 1/2 Free Windows Softphone included
  - 1/2 Rack-mountable (Optional 'RM1' required)

### Draytek VigorPBX 2000 - Technical Specifications

#### Physical Interfaces

- 1/2 LAN Ports (Switch)
  - 1/2 6 X Gigabit Ethernet (1000Mb/s) Ports
  - 1/2 WAN Ports: WAN1 : ADSL2+/VDSL2 RJ11, supports G.INP & Vectoring (UK Models)
  - WAN2 : Gigabit Ethernet (1000Mb/s) Ethernet for load balance and WAN failover
  - WAN3 : USB 2.0 Port for 3G / 4G / LTE Cellular Modem
  - WAN4 : USB 2.0 Port for 3G / 4G / LTE Cellular Modem
- 1/2 2 x USB 2.0 Port for 3G / 4G / LTE or Printer, USB Storage or USB Thermometer
- 1/2 VoIP Ports: 1 X FXS Analogue Telephone Port 2 X FXO Analogue Line Port

#### IP PBX Features

- 1/2 IPPBX Setup Wizard
- 1/2 50 Extension profiles (user/phone accounts)
- 1/2 Extension privilege assignment
- 1/2 PPTP VPN Dial-In per extension (supported by DrayTek Softphone)
- 1/2 50 simultaneous registered extensions - local or remote
- 1/2 Up to 20 simultaneous calls
- 1/2 Trunks: 12 SIP Trunks with 50 SIP alias numbers Selective CLI for outgoing calls Time budget per trunk, per day Direct Inward Dialling (DID) 2 x FXO Ports (analogue line interface) fully

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integrated with PBX PIN code control 8 Custom Trunks Dial Plan (Phone Book): 60 Digit Map entries (Configurable dialling rules, with wildcards) 100 Speed Dial entries 20 Call Barring entries (blacklist/whitelist with wildcard, block anonymous)

• SIP Proxy: Music on Hold (up to 5 minutes) Waiting Music IP Whitelist for remote registration with brute force protection Customisable PBX Service Numbers: Day / Night mode Call Pickup Call Parking Server DnD enable/disable Call Forward enable/disable

• 20 Hunt Groups: 20 Extensions per Hunt Group Hunt Rules (Simultaneously, Sequentially, Random) Overflow Rules Forward to Voicemail for Extension / Group Forward to Extension / Group Forward to Auto Attendant Call Queuing

• Voice Mail: Individual Voice Mail inboxes Shared Voice Mail via Hunt Group Individual Voice Mail greetings (Extension & Hunt Group) Save Voice Mail to USB disk Send Voice Mail by Email

• Office Hours: Answering Modes for Office Hours, Out-of-Office Hours and Holidays 16 Holiday profiles with individual prompts

• Auto Attendant: 20 Auto Attendant Menus Multi-Level via linked menus Custom prompts Customer Survey with custom prompts Call forwarding - to extensions or PSTN / SIP trunks Call pickup (Extension or Group)

• PBX Status: Session Monitor BLF (Busy-lamp Field) to indicate ringing or busy on VoIP handsets that support BLF MWI (Message Waiting Indication) Call Detail Records (via syslog, or 1000 stored locally, export to .csv) User-defined prompts SIP Trunk and Extension configuration backup

### FXS Port Features

• Call Hold/Retrieve

• Call Waiting with Caller ID

• Call Transfer

• Call Forwarding (Always, Busy, No Answer)

• Hotline

• PSTN Pass-through (FXO1) when power failure

• PSTN Pass-through when Internet connection dropped/Registry failure

### VoIP Protocols

• SIP, RTP/ RTCP

• G.168 line echo-cancellation

• Automatic gain control

• Jitter buffer (180ms)

• Voice codecs : G.711, G.723.1, G.726

• VAD/CNG

• DTMF tone : Inband / Outband (RFC-2833) / SIP Info

• FAX/Modem support : Tone detection / G.711 pass-through / T.38 for FAX (Redundancy & FEC Error Correction Modes)

### LAN Features

• 6 X LAN Subnets, IP Routed Subnet & DMZ Subnet

• Port-Based or 802.1q VLAN Tag-Based VLAN - Click for explanation

• LAN Port Mirror

• Wired 802.1x

• IPv6 Multi-Subnet LAN1-6 & DMZ Subnet

• Routing or NAT mode for LAN 2-6 & DMZ Subnet

• NAT and Routing Features:

• Supports 50,000 sessions

• Load Balancing (Session or IP based)

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- 50 Policy Route Rules
- WAN Failover
- WAN Budget
- Multi-NAT (32 per WAN1&WAN2)
- DMZ Host
- 40 Port-Redirection entries
- 40 Open Port entries (10 ranges per entry)
- IGMP Proxy V2/V3
- IGMP Snoop
- Static Routing
- RIPv2
- UPnP Support up to 30 sessions

### Firewall Features

- Object-based Firewall
- MAC Address Filtering
- SPI (Stateful Packet Inspection) (Flow Tracking)
- DoS/DDoS prevention
- IP Address Anti-Spoofing
- E-Mail alert and logging via syslog
- Time Schedule Control
- Firewall v3
- Web Portal
- Supports SmartMonitor (up to 50 IPs)
- User Management
- Up to 200 Profiles
- Supports external authentication via LDAP or RADIUS
- Per User Bandwidth and Time Quota
- Schedule Control to delete or disable account automatically

### Content Security Management

- IM/P2P Application V3 (APP Enforcement) Web Content & URL Keyword Filtering via DNS proxy
- URL Content Filter : URL Keyword Blocking (White List and Black List) Java Applet, Cookies, Active X, Compressed, Executable, Multimedia File Blocking Supports Cyren WEB Content Filter

### Bandwidth Management Features

- Quality of Service:
  - Guaranteed bandwidth for VoIP
  - Class-based bandwidth guarantee by user-defined traffic categories
  - Layer-3 (TOS/DSCP) QoS Mapping
  - 4-level priority for each direction (Inbound/Outbound)
  - Bandwidth borrowing
  - Bandwidth/Session Limit
  - Smart Bandwidth Limitation (Triggered by Traffic / Session)
  - Automatic VoIP QoS (Reserved bandwidth 88Kbps per call)

### Network Features

- Multi Subnet DHCP Servers with DHCP Relay and custom DHCP Options
- Dynamic DNS
- NTP client

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- 1/2 RADIUS Client
- 1/2 LDAP Client
- 1/2 TACACS+ Client
- 1/2 DNS Caching
- 1/2 DNS transparent proxy
- 1/2 LAN DNS

### VPN Features

- 1/2 Up to 32 VPN Tunnels
- 1/2 Protocol : PPTP, IPSec, L2TP, L2TP over IPSec
- 1/2 Encryption : MPPE and hardware-based AES/DES/3DES
- 1/2 Authentication :MD5, SHA-1
- 1/2 IKE Authentication : pre-shared key and digital signature (X.509)
- 1/2 LAN-to-LAN, Teleworker-to-LAN
- 1/2 DHCP over IPSec
- 1/2 IPSec NAT-Traversal (NAT-T)
- 1/2 Dead Peer Detection (DPD)
- 1/2 VPN Pass-Through
- 1/2 VPN Wizard
- 1/2 mOTP
- 1/2 SSL VPN: 16 Tunnels
- 1/2 VPN Trunk (Load Balance/Backup)

### Wireless AP (VigorBX 2000ac only)

- 1/2 802.11ac Compliant (also 802.11n, a, b and g)
- 1/2 5GHz: 1300Mb/s Total Wireless Capacity, 3 Spatial Streams (3x3)
- 1/2 2.4GHz: 300Mb/s Total Wireless Capacity, 2 Spatial Streams (2x2) 4 X 2.4GHz SSIDs 4 X 5GHz SSIDs
- 1/2 DFS/TPC Support, allowing use of all of bands 1 and 2
- 1/2 Supports extended channels (36-64 & 100-140)
- 1/2 Selectable 20/40/80 Mhz Channel Bandwidth
- 1/2 Dynamic adjustment of channel bandwidth
- 1/2 A-MSDU Selectable
- 1/2 Mixed-Mode / Green field Selectable
- 1/2 Simultaneous Operation with 2.4Ghz (802.11n/b/g)
- 1/2 Optional Higher Gain or directional aerials available - [Click Here](#).
- 1/2 Active Client list in Web Interface
- 1/2 Wireless LAN Isolation (from each other and/or wired LAN)
- 1/2 WPA/WPA2 Encryption
- 1/2 WEP Encryption
- 1/2 Switchable Hidden SSID (per SSID)
- 1/2 Restricted access list for clients (by MAC address)
- 1/2 Time Scheduling (WLAN radios can be disabled at certain times of day)
- 1/2 Access Point Discovery
- 1/2 WDS (Wireless Distribution system) for Bridging and Repeating
- 1/2 802.1x Radius Authentication
- 1/2 Wireless Rate-Control
- 1/2 Automatic Power Management
- 1/2 802.11e WMM (Wi-Fi Multimedia) \* Support for DFS/TPC allows the VigorBX 2000ac to use a larger range of wireless LAN channels (frequencies). As well as the standard Band A-Lower (UNII-1) channels (Nos. 36, 40,44,48), the Vigor 2860ac can use Band A-Upper (UNII-2) Nos. 52,56,60,64) and Band B (UNII-2) (Nos. 100-140).

## Draytek VigorPBX 2000 IPPBX & VDSL/ADSL Firewall

### Management Features

- TR-069 & TR-104 management
- Two Level Management (Admin or User mode)
- Syslog via IP or USB
- Mail Alert
- Firmware Upgrade via TFTP, FTP, HTTP, TR-069
- Web Based User Interface via HTTP or HTTPS
- Quick Start Wizard
- PBX Dashboard
- CLI (Command Line Interface) via Telnet or SSH
- Administration access control via Remote IP or LAN Interface
- Configuration Backup / Restoration
- Configuration Import from Vigor IPPBX 2820
- SNMP V2, V2c, V3
- SMS Alerts via web SMS service
- DrayTek External Device detection

### 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: 24 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
- Important Note: The specification and compatibility listed here applies only to the UK model (for use in the UK & Ireland). For use in other regions, you should ensure that you are buying the right model intended for that country and matching local network compatibility. When purchasing your unit, ensure it matches your region (the outer box is clearly labelled).

### Please Enquire