



Product Name: DrayTek VigorBX 2000n IP PBX & DSL Firewall

Manufacturer: -

Model Number: VBX2000N-K

Please Note: This product has been discontinued. Please see our range of Draytek Routers for an alternative here.

DrayTek VigorBX 2000n IP PBX & DSL Firewall

The DrayTek VigorBX 2000n is an IP PBX integrated with a VDSL firewall/router. The VigorBX 2000n offers a complete replacement to the traditional office phone system and analogue lines through an IP PBX, which uses your existing network, and the Internet, to provide company-wide telephony. This method can save on call and line rental costs, provides vast flexibility, and increases efficiency. DrayTek VigorBX 2000n Key Features

� Voice-over-IP Hardware PBX

� VDSL2/ADSL2+ Firewall/Router

ï¿1/2 6-Port Gigabit Ethernet LAN Switch

ï¿1/2 Up to 50 VoIP Extensions

� 2 x FXO Ports

ï¿⅓ FXS Analogue Phone Interface

تزار Voicemail (with remote & mail access)

ï¿⅓ Multi-Level IVR

IVR CapabilitiesThe VigorBX 2000n features an auto-attendant who can answer your incoming calls and direct your caller to the correct department without any operator/receptionist intervention. You can record your own messages and set up the destinations of each selection, whether it's a group, individual extension or even a remote user. Extensions and GroupsThe VigorBX 2000n is recommended for up to 50 active/live extensions. Each extension will be used for an IP desk phone, an analogue extension (either built into the IPPBX or another SIP compliant analogue telephone adaptor) or other SIP-compatible VoIP devices. Compatible with IP TelephonesFor each extension on your PBX, you can use an IP phone, either desktop or cordless. You can also use softphones (software on a PC) or apps on mobile devices. The VigorBX2000n uses the industry standard 'SIP' (Session Initiation Protocol) which is used by most SIP phones. Wireless LANThe VigorBX 2000n includes wireless LAN so that your laptops, tablets and other wireless equipped devices can have access to your LAN and the Internet, or register as an extension with the PBX using a softphone (e.g. the DrayTek softphone for Windows).

DrayTek VigorBX 2000n - Technical Specifications Physical Interfaces

آذِ LAN Ports (Switch)

ï¿1/2 6 X Gigabit Ethernet (1000Mb/s) Ports

آزٰ½ WAN Ports:

าั¿½ WAN1 : ADSL2+/VDSL2 RJ11, supports G.INP & Dectoring (UK Models) าั¿½ WAN2 : Gigabit Ethernet (1000Mb/s) Ethernet for load balance and WAN failover

រ៉េះ// WAN3: USB 2.0 Port for 3G / 4G / LTE Cellular Modem រ៉ុះ// WAN4: USB 2.0 Port for 3G / 4G / LTE Cellular Modem

آزا 2 x USB 2.0 Port for 3G / 4G / LTE or Printer, USB Storage or USB Thermometer



آزار VoIP Ports: آذِرً 1 X FXS Analogue Telephone Port تزار 2 X FXO Analogue Line Port **IP PBX Features** ï¿⅓ IPPBX Setup Wizard าั¿1/2 50 Extension profiles (user/phone accounts) � Extension privilege assignment าั¿½ PPTP VPN Dial-In per extension (supported by DrayTek Softphone) าั¿½ 50 simultaneous registered extensions - local or remote � Up to 20 simultaneous calls تز½ Trunks: าั¿½ 12 SIP Trunks with 50 SIP alias numbers ï¿1/2 Selective CLI for outgoing calls � Time budget per trunk, per day � Direct Inward Dialling (DID) าั¿½ 2 x FXO Ports (analogue line interface) fully integrated with PBX � PIN code control ï¿1/2 8 Custom Trunks تزاري Dial Plan (Phone Book): ī స్ట్రీ 60 Digit Map entries (Configurable dialling rules, with wildcards) ï¿1/2 100 Speed Dial entries าั¿½ 20 Call Barring entries (blacklist/whitelist with wildcard, block anonymous) ï¿⅓ SIP Proxy: � Music on Hold (up to 5 minutes) ï¿⅓ Waiting Music آذِاً IP Whitelist for remote registration with brute force protection

17:1/2 Customisable PBX Service Numbers:

� Day / Night mode� Call Pickup� Call Parking Server� DnD enable/disable



� Call Forward enable/disable

آزٰ½ 20 Hunt Groups:

- � 20 Extensions per Hunt Group
- آذِيً Hunt Rules (Simultaneously, Sequentially, Random)
- ï¿⅓ Overflow Rules
- า๊¿½ Forward to Voicemail for Extension / Group
- ï¿⅓ Forward to Extension / Group
- � Forward to Auto Attendant
- ï¿1/2 Call Queuing

� Voice Mail:

- ï¿⅓ Individual Voice Mail inboxes
- ï¿⅓ Shared Voice Mail via Hunt Group
- آذًا Individual Voice Mail greetings (Extension & Emp; Hunt Group)
- Ti. 1/2 Save Voice Mail to USB disk (requires external USB stick, FAT32 formatted)
- � Send Voice Mail by Email

� Office Hours:

- า๊¿½ Answering Modes for Office Hours, Out-of-Office Hours and Holidays
- تزير 16 Holiday profiles with individual prompts

ï¿1/2 Auto Attendant:

- � 20 Auto Attendant Menus
- � Multi-Level via linked menus
- � Custom prompts
- � Customer Survey with custom prompts
- تزار Call forwarding to extensions or PSTN / SIP trunks
- آذًا Call pickup (Extension or Group)
- آز½ PBX Status:
- آزٰء\ Session Monitor
- ī¿½ BLF (Busy-lamp Field) to indicate ringing or busy on VoIP handsets that support BLF
- � MWI (Message Waiting Indication)
- تزير Call Detail Records (via syslog, or 1000 stored locally, export to .csv)
- � User-defined prompts
- � SIP Trunk and Extension configuration backup

FXS Port Features



- ï¿1/2 Call Hold/Retrieve
- ï¿1/2 Call Waiting with Caller ID
- ï¿1/2 Call Transfer
- تز½ Call Forwarding (Always, Busy, No Answer)
- ï¿⅓ Hotline
- าั¿½ PSTN Pass-through (FXO1) when power failure
- ī సైస్ట్ PSTN Pass-through when Internet connection dropped/Registry failure

VoIP Protocols

- ï¿⅓ SIP, RTP/RTCP
- ï¿⅓ G.168 line echo-cancellation
- ï¿1/2 Automatic gain control
- ï¿1/2 Jitter buffer (180ms)
- آز½ Voice codecs : G.711, G.723.1, G.726, G.729 A/B
- ï¿⅓ VAD/CNG
- าั¿1/2 DTMF tone: Inband / Outband (RFC-2833) / SIP Info
- ī¿½ FAX/Modem support : Tone detection / G.711 pass-through / T.38 for FAX (Redundancy
- & amp; FEC Error Correction Modes)

LAN Features:

- � 6 X LAN Subnets, IP Routed Subnet & DMZ Subnet
- Ti. 1/2 Port-Based or 802.1q VLAN Tag-Based VLAN
- � LAN Port Mirror
- ï¿⅓ Wired 802.1x
- آزٰ IPv6 Multi-Subnet LAN1-6 & DMZ Subnet LAN1-6 الكانة IPv6 Multi-Subnet LAN1-6 ...
- � Routing or NAT mode for LAN 2-6 & DMZ Subnet

NAT and Routing Features

- ï¿1/2 Supports 50,000 sessions
- � Load Balancing (Session or IP based)
- � 50 Policy Route Rules
- تز½ WAN Failover
- ï¿⅓ WAN Budget
- ï¿1/2 Multi-NAT (32 per WAN1&WAN2)
- تز½ DMZ Host
- ï¿⅓ 40 Port-Redirection entries
- 12/2 40 Open Port entries (10 ranges per entry)
- � IGMP Proxy V2/V3
- ï¿⅓ IGMP Snoop
- � Static Routing
- % RIPv2 يُزْت
- � UPnP Support up to 30 sessions

Firewall Features

- ï¿⅓ Object-based Firewall
- ï¿1/2 MAC Address Filtering
- 12/2 SPI (Stateful Packet Inspection) (Flow Tracking)
- � DoS/DDoS prevention
- ï¿1/2 IP Address Anti-Spoofing
- � E-Mail alert and logging via syslog
- ï¿1/2 Time Schedule Control



- � Firewall v3
- آذِ1/2 Web Portal
- ï¿1/2 Supports SmartMonitor (up to 50 IPs)
- � User Management
- � Up to 200 Profiles
- า๊¿½ Supports external authentication via LDAP or RADIUS
- ï¿1/2 Per User Bandwidth and Time Quota
- � Schedule Control to delete or disable account automatically

Content Security Management

- i¿½ IM/P2P Application V3 (APP Enforcement)
- าั¿½ Web Content & URL Keyword Filtering via DNS proxy
- าั¿½ URL Content Filter: URL Keyword Blocking (White List and Black List) Java Applet, Cookies,
- Active X, Compressed, Executable, Multimedia File Blocking
- ï¿1/2 Supports Cyren WEB Content Filter

Bandwidth Management Features

- � Quality of Service:
- ï¿1/2 Guaranteed bandwidth for VoIP
- าั¿½ Class-based bandwidth guarantee by user-defined traffic categories
- � Layer-3 (TOS/DSCP) QoS Mapping
- าั¿1/2 4-level priority for each direction (Inbound/Outbound)
- ï¿⅓ Bandwidth borrowing
- ï¿⅓ Bandwidth/Session Limit
- � Smart Bandwidth Limitation (Triggered by Traffic / Session)
- ī¿½ Automatic VoIP QoS (Reserved bandwidth 88Kbps per call)

Network Features

- īப் Multi Subnet DHCP Servers with DHCP Relay and custom DHCP Options
- � Dynamic DNS
- آزٰ½ NTP client
- ï¿⅓ RADIUS Client
- � LDAP Client
- � TACACS+ Client
- � DNS Caching
- � DNS transparent proxy
- � LAN DNS

VPN Features

- � Up to 32 VPN Tunnels
- � Protocol : PPTP, IPSec, L2TP, L2TP over IPSec
- าั¿1/2 Encryption: MPPE and hardware-based AES/DES/3DES
- ï¿1/2 Authentication :MD5, SHA-1



- าั¿½ IKE Authentication : pre-shared key and digital signature (X.509)
- ï¿1/2 LAN-to-LAN, Teleworker-to-LAN
- � DHCP over IPSec
- i¿½ IPSec NAT-Traversal (NAT-T)
- � Dead Peer Detection (DPD)
- � VPN Pass-Through
- تز½ VPN Wizard
- mOTP ½ mOTP
- ï¿1/2 SSL VPN: 16 Tunnels
- � VPN Trunk (Load Balance/Backup)

Wireless AP

- � 802.11n Compliant
- าั¿½ 2.4GHz: 300Mb/s Total Wireless Capacity, 2 Spatial Streams (2x2)
- � 4 SSIDs (Isolated / Common)
- ï¿1/2 Selectable 20/40 Mhz Channel Bandwidth
- � Dynamic adjustment of channel bandwidth
- ī సైస్త Optional Higher Gain or directional aerials available
- ï¿1/2 Active Client list in Web Interface
- ī స్ట్రి Wireless LAN Isolation (from each other and/or wired LAN)
- � WPA/WPA2 Encryption
- � WEP Encryption
- � Switchable Hidden SSID (per SSID)
- 12.1/2 Restricted access list for clients (by MAC address)
- ī¿½ Time Scheduling (WLAN radios can be disabled at certain times of day)
- � Access Point Discovery
- าั¿½ WDS (Wireless Distribution system) for Bridging and Repeating
- � 802.1x Radius Authentication
- ï¿1/2 Wireless Rate-Control
- � Automatic Power Management
- ï¿1/2 802.11e WMM (Wi-Fi Multimedia)

Management Features

- ï¿1/2 TR-069 & TR-104 management
- تزاري Two Level Management (Admin or User mode)
- ï¿⅓ Syslog via IP or USB
- تز½ Mail Alert
- آزٰ½ Firmware Upgrade via TFTP, FTP, HTTP, TR-069
- i¿1/2 Web Based User Interface via HTTP or HTTPS
- � Quick Start Wizard
- � PBX Dashboard
- ï¿1/2 CLI (Command Line Interface) via Telnet or SSH
- า๊¿½ Administration access control via Remote IP or LAN Interface
- � Configuration Backup / Restoration
- � Configuration Import from Vigor IPPBX 2820
- ï¿1/2 SNMP V2, V2c, V3
- ï¿1/2 SMS Alerts via web SMS service
- ï¿1/2 DrayTek External Device detection

Operating Requirements

- īస్ట్ Rack Mountable (Optional RM1 mounting bracket required)
- تز1/2 Wall Mountable



� Temperature Operating: 0°C ~ 45°C

i¿½ Storage : -25°C ~ 70°Ci¿½ Humidity 10% ~ 90% (non-condensing)

ï¿⅓ Weight : 1.2Kg

� Power Consumption: 24 Watt Max.

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¿½ Dimensions: L240.96 * W165.07 * H43.96 (mm)

าั¿½ Operating Power: DC 15V (via external PSU, supplied). Max 21W.

� Warranty : Two (2) Years RTB � Power Requirements : 220-240VAC

Please Enquire