

## DrayTek VigorBX 2000ac IP PBX & DSL Firewall with Wireless LAN



Product Name: DrayTek VigorBX 2000ac IP PBX & DSL Firewall with Wireless LAN

Manufacturer: -

Model Number: VBX2000AC-K

Please Note: The DrayTek VBX2000AC-K has been discontinued. For an alternative, we recommend the DrayTek VBX2000N-K.

DrayTek VigorBX 2000ac IP PBX & DSL Firewall with Wireless LAN

The VigorBX 2000ac 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).

DrayTek VigorBX 2000ac 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 VPN for LAN-to-LAN or teleworkers
- 1/2 802.11ac WiFi ('VigorBX 2000ac' only)

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 2000ac supports up to 50 extensions, all with voicemail.

The VigorBX 2000ac features 802.11ac 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. The VigorBX 2000ac wireless LAN features:

- 1/2 2.4GHz: 300Mb/s Total Wireless Capacity, 2 Spatial Streams (2x2)
- 1/2 Simultaneous Dual-Band Operation with 2.4GHz (802.11n/b/g) and 5GHz (802.11a/n/ac)
- 1/2 Supports extended channels (36-64 & 100-140)
- 1/2 Physical On/Off switch to quickly disable Wireless radios
- 1/2 Optional Higher Gain or directional aerials available
- 1/2 Active Client list in Web Interface
- 1/2 Wireless LAN Isolation (from each other and/or wired LAN) integrated with wired VLAN groups
- 1/2 WPA2 Encryption
- 1/2 Optional VigorCare Available
- 1/2 Free Windows Softphone included
- 1/2 Rack-mountable (Optional 'RM1' required)

The VigorBX 2000ac offers a complete replacement to the traditional office phone system and analogue lines. An IP-PBX uses your existing network and the Internet to provide company-wide telephony, using VoIP technology instead of regular phone lines or a traditional PBX. This can save hugely on line rental, provides vast flexibility, reduces call costs, maintenance and increases efficiency. IP Phones can be placed anywhere in your office, or remotely around the world to provide one seamless phone network for your business. Wherever you have an Internet connection, you can have an extension on your PBX. All pure IP calls are free of charge; for calls to the conventional phone network (PSTN) you route via an ITSP 'Trunk' for low cost calls.

## DrayTek VigorBX 2000ac IP PBX & DSL Firewall with Wireless LAN

In a pure IP environment, the VigorBX 2000ac is installed onto your LAN together with IP telephones. All devices are connected over your LAN using your existing Ethernet network connections. The VigorBX 2000ac can support up to 50 extensions - local or remote. As it uses your regular network, you don't need special extension wiring - just your existing Ethernet switch with adequate ports (assuming you are using IP phones). A traditional PBX with 50 extensions would take up a whole cabinet and need a lot of wiring!

Once installed, all extensions can call each other of course and calls can be transferred, diverted and all other normal features of a PBX. Extensions do not have to be local (in the same office as the iPBX) - they can be anywhere in the world, and still be seamless so that calls can be made between to transferred to extensions whether they are local or remote. Similarly, incoming calls can be routed to any extensions, whether they are local or distributed in many remote locations - anywhere with an Internet connection. As well as physical desk phones and cordless phones, you can also use softphones running on your laptop or IP phone apps on your smartphone.

DrayTek VigorBX 2000ac - Technical Specifications

Physical Interfaces

ï¿½ PBX Features Include:

- ï¿½ Up to 50 VoIP Extensions (local or remote)
- ï¿½ 2 x FXO Port (Analogue Line Interface)
- ï¿½ FXS Analogue Phone Interface (with POTS failover)
- ï¿½ Voicemail (with remote & email access)
- ï¿½ Call Queuing
- ï¿½ Multi-Level IVR (Voice Auto-Attendant)
- ï¿½ LAN Ports (Switch)

ï¿½ 6 X Gigabit Ethernet (1000Mb/s) Ports

ï¿½ WAN Ports:

- ï¿½ WAN1 : ADSL2+/VDSL2 RJ11, supports G.INP & Vectoring (UK Models)
- ï¿½ WAN2 : Gigabit Ethernet (1000Mb/s) Ethernet for load balance and WAN failover
- ï¿½ WAN3 : USB 2.0 Port for 3G / 4G / LTE Cellular Modem
- ï¿½ WAN4 : USB 2.0 Port for 3G / 4G / LTE Cellular Modem

ï¿½ 2 x USB 2.0 Port for 3G / 4G / LTE or Printer, USB Storage or USB Thermometer

ï¿½ VoIP Ports:

- ï¿½ 1 X FXS Analogue Telephone Port
- ï¿½ 2 X FXO Analogue Line Port

FXS Port Features

- ï¿½ Call Hold/Retrieve
- ï¿½ Call Waiting with Caller ID
- ï¿½ Call Transfer
- ï¿½ Call Forwarding (Always, Busy, No Answer)

## DrayTek VigorBX 2000ac IP PBX & DSL Firewall with Wireless LAN

- 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

### LAN Features

- 6 X LAN Subnets, IP Routed Subnet & DMZ Subnet
- Port-Based or 802.1q VLAN Tag-Based VLAN
- LAN Port Mirror
- Wired 802.1x
- IPv6 Multi-Subnet LAN1-6 & DMZ Subnet
- Routing or NAT mode for LAN 2-6 & DMZ Subnet

**Please Enquire**