

HorstBox Professional DVA-G3342SB

ADSL ISDN VoIP Gateway

The Requirements

Most telecommunications enterprises plan to migrate their conventional phone networks to VoIP based on the SIP protocol. In the future more customers will demand Telephonie over the Internet more and more.

Use all possibilities of VoIP today! The advantages are various:

- cost savings on the charges side, but also at the operative level;
- independence of changing rates for phone services.

Many small local offices need a simple solution of making phone calls over the Internet and connecting to the corporate network or the Internet via broadband. Already installed equipment ought to be used furthermore. Simultaneously new possibilities and migration ways should be introduced.

The Solution: ADSL VoIP Gateway DVA-G3342SB

D link takes these requirements into account with the new ADSL VoIP Gateway DVA-G3342SB :

- The DVA-G3342SB is a complete DSL router with all safety relevant functions.
- It offers a complete small business phone installation (SoftPbx based on Asterisk™) with all necessary qualities and functions at the same time.
- Of course you can connect your notebook computers by WLAN with data encryption.
- Use available analogous and ISDN capable terminals, like telephone, fax, answering machines.
- All existing phone numbers remain unchanged.
- Use VoIP for long distance and international calls.
- The DVA-G3342SB is 100% compatible to all known SIP providers.

Least Cost Routing

Least Cost Routing (LCR) between locations is made possible by the networking of several locations. Phone calls within an enterprise network are possible without further costs, moreover, the most economical exit point (gateway function e.g. into the fixed network) always can be chosen. Also further LCR functions are possible. With IAX2 (optional), a very efficient and moreover NAT compatible protocol (a weakness of SIP), which supports authentication is implemented. The protocol is going to become a standard soon.

HORSTBOX
PROFESSIONAL

Features

WAN and LAN

- ADSL/ADSL2+
- 4 Ethernet Ports
- Firewall
- DHCP Server
- DDNS
- DMZ (Exposed Host)

SoftPbx

- Up to 8 ISDN- and up to 2 analog Phones
- Up to 20 VoIP Accounts
- External Redirections
- Call Rules
- Accounts
- Least Cost Routing
- Internal Calls to all Devices

WLAN

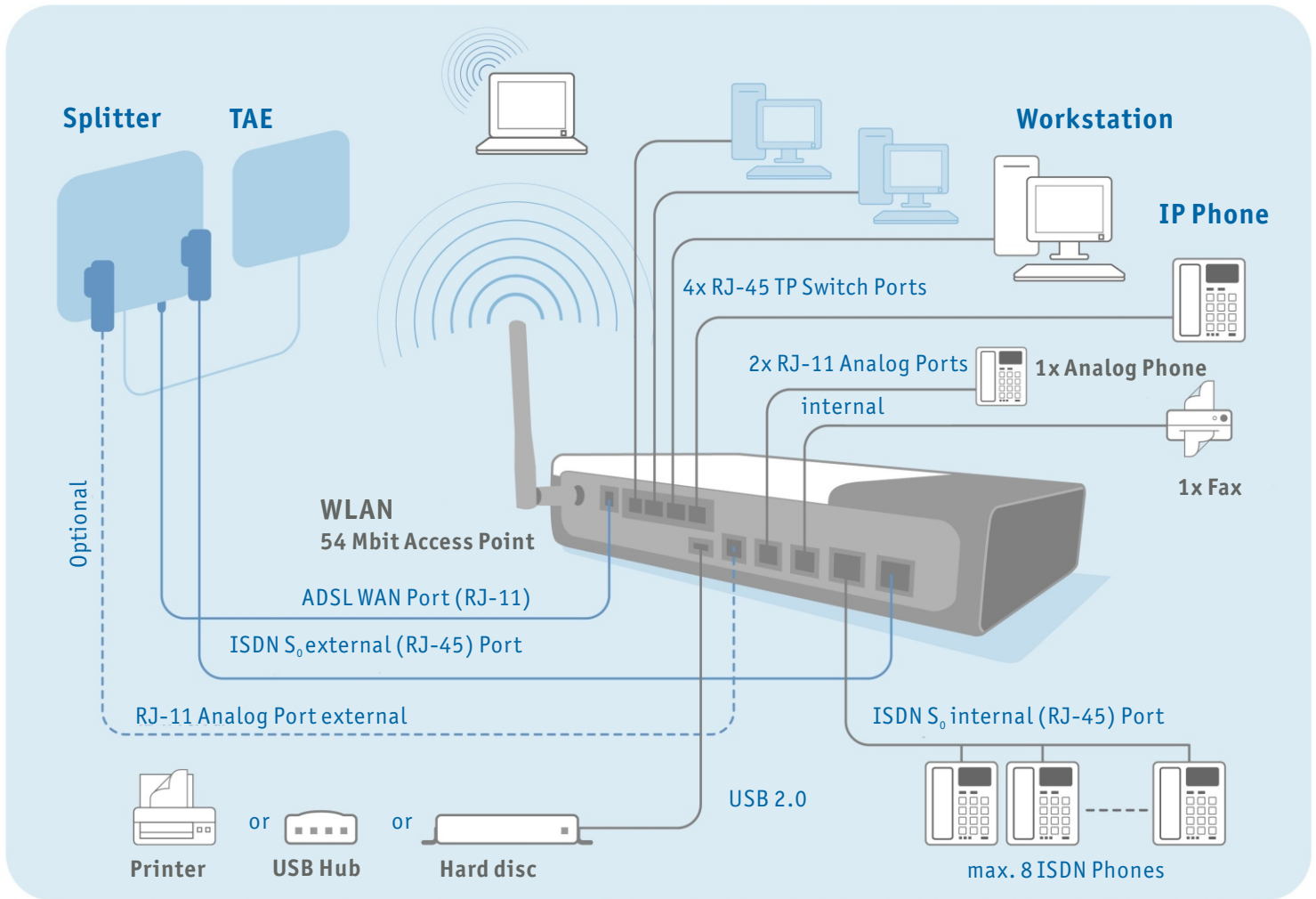
- Data Encryption
- Standards: 802.11b and 802.11g
- WPA, WPA 2, TKIP, AES and Pre-Shared Key Mode
- Supports Multiple SSID (max. 4)



Asterisk



How to use (Example)



Information

Analog line: Please connect analog line to port “a/b” on the HorstBox.

ISDN line: Please connect ISDN line to NTBA and NTBA to port “S₀ Ext” on the HorstBox.

* Connecting the ISDN line to NTBA is mandatory!

Spezification

Software

- Linux Kernel 2.6
- Asterisk Version 1.2

Hardware

WAN

- ADSL, ADSL2, ADSL2+
- Downstream: bis zu 24 MBit/s
- Upstream : bis zu 1 MBit/s
- Standards :
 - ANSI T1.413 Issue 2
 - ITU G.992.1 (G.dmt) AnnexB
 - ITU G.992.2 (G.lite) Annex B
 - ITU G.994.1 (G.hs)
 - ITU G.992.3 (G.dmt.bis) Annex B
 - ITU G.992.4 (G.lite.bis) Annex B
 - ITU G.992.5 Annex B

LAN

- 4 Port 10/100 Mbits/s
- MDI/MDX Auto sensing

USB

- 1 Port USB 2.0 Master

WLAN

- 54 Mbit WLAN
- 802.11b
- 802.11g

Routing

- Transparent Bridging
- Dynamic Learning
- Encapsulation
- IPv4:
 - TCP/UDP
 - ARP
 - RARP
 - ICMP
- IP Routing
 - RiP v1
 - IP Static Routing
- DHCP
 - Sever & Client
- DNS

ATM/ADSL

- Multiple PVC
- ATM Cell format
- ATM Adaptation Layer
- ATM signaling
- OAM support
- ATM QoS (Traffic Shaping)

PPP Support

- Point-to-Point Protocol
- PPP over ATM
- PPP over Ethernet
- User Authentication

NAT

- NAT/NAPT
- Port Forwarding
- NAT ALGs
- VPN Passthrough
- DMZ

Security

- Filtering
- SPI
- DOS Protection
- QoS

WLAN-AP Functions

- ESS-ID
- MAC- Address-Filter
- 802.1x
- WEP (Wired Equivalent Privacy)

Configuration/Management

- Access control
- WEB-based Management
- HTTP
- SNMP v.1 and v.2c
- SNTp
- Reset
- UPnP 1.0
- Tr069
- WT104
- Diagnose
- Configuration Backup/Restore
- User hierarchy:
 - Standard user
 - Supervisor

Special Applications

- IGMP Proxy
- IGMP Snooping

Voice Features

- CallControl for VoIP:
 - SIP (RFC 3261)
 - H.323 optional
 - MGCP optional
 - SCCP optional
 - OSP optional

SoftPbx

- Blind Transfer
- Call Detail Records
- Call Forward on Busy
- Call Forward on No Answer
- Call Forward Variable
- Call Transfer
- Call Waiting
- Caller ID
- Caller ID Blocking
- Caller ID on Call Waiting
- Dial by Name
- Do Not Disturb
- Fax Transmit and Receive
- Music On Transfer
- Protocol Conversion
- Remote Call Pickup
- Three-way Calling
- Time and Date
- Transcoding
- Visual Indicator for Message Waiting
- MF and DTMF Support

Voice Codecs

- G.711 (a-Law, μ -Law)
- G.726
- GSM
- iLBC
- Speex
- LPCTD

Physical & Environmental

Security/Emission

- CSA
- UL1950, IEC60950, EN60950
- EMC Specification

- CE Class B
- UR-2
- Wi-Fi certified
- FCC part15 Subpart CCE EN 300 328

Environmental

- Operating temperature: 0°C to 40°C
- Storage temperature: -20°C to 70°C
- Relative Humidity: 5% to 95% not condensing

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