



voip-mg Appliance plus



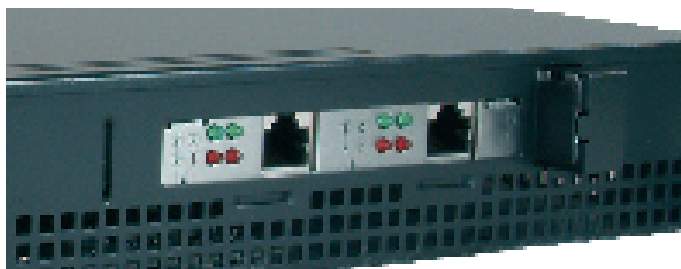
Productsheet

Junghanns.NET

QUALITY IN COMMUNICATIONS

The Junghanns.NET voip-mg Appliance plus is a simple solution to providing GSM and ISDN connectivity to any PBX using either the SIP or the IAX2 protocol. The appliance runs the voip-mg software and offers an easy to use web-interface to configure all ports and channels. But the open - Appliance can be much more than a simple gateway. The linux host system offers the opportunity to run a linux based questsystem using XEN paravirtualization technology.

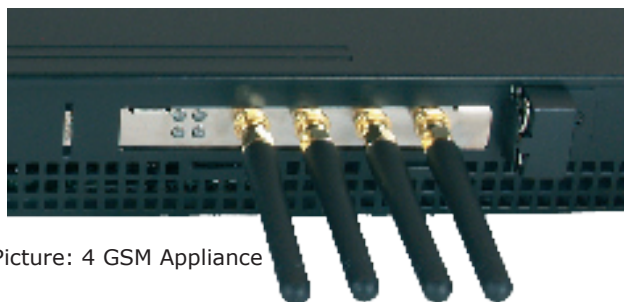
Inside the guest system the user can run any flavour of linux based PBX, i.e. Asterisk Buiness Edition, Freeswitch, Trixbox, or others. The Appliance registers as a PSTN gateways to the guest system and users can choose from the whole variety of available Junghanns.NET interface cards. All interfaces can be ordered in the desired configuration from Junghanns.NET.



Picture: 2 PRI Appliance

All appliances have easily accessible connectors and interfaces facing to the front. Among others it features 2 RJ 45 GigaBit LAN ports, 2 USB, 2 PS/2, 1 VGA (Onboard GMA 950 32 MB). The appliance is powered by an Intel Atom 1.6 GHz processor and can be customized to contain up to 2 GB of non ECC RAM making it powerful enough to support up to 2 Primary Rate Interfaces to integrate an existing PRI infrastructure. In the basic version it provides a 2 GB SSD partition for the guest OS.

If necessary the 19 inch brackets can be removed and rubber feet can be attached to the casing.



Picture: 4 GSM Appliance

Target applications

- ISDN - GSM Integration
- SIP Media Gateway, IAX2 - Mediagateway
- Voice over IP GSM/BRI/PRI Gateways
- VoIP Integration of ISDN/GSM devices
- Integration of existing PBX infrastructure
- SMS gateway
- Use with any Asterisk, freeswitch, trixbox, etc.

Available Interfaces

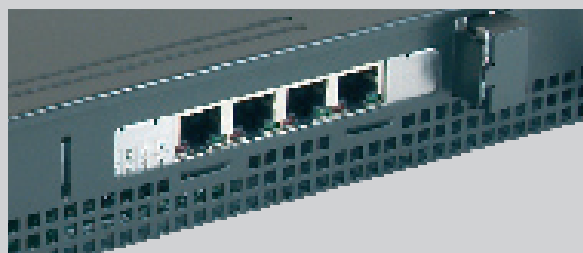
- Basic Rate Interface (BRI), offering 8 or 16 channels with 4 or 8 interfaces (each can be individually configured to use TE or NT mode)
- Primary Rate Interface (PRI), offering 30 or 60 channels with 1 or 2 interfaces (each interface can be individually configured to use TE or NT mode) (for integration of PRI only)
- GSM, offering 4 GSM channels for use with up to 8 SIM cards, with full support for SMS send and receive
- Hybrid offering 4 channels over BRI and 2 GSM channels (available Q4/2010)

Highlights

- Send and receive SMS
- Supports any linux based PBX as guest in XEN Paravirtualization
- Seamless integration inside your Network environment

Supported telephony protocols

- GSM, Telephony as well as sending and receiving SMS via HTTP/XML interface or from guest PBX
- EuroISDN BRI (S0), TE/NT mode, Point to Point and Point to Multipoint support
- EuroISDN PRI (S2M), TE/NT mode
- SIP (TCP/UDP)
- RTP (g711)
- IAX2



Picture: 8 BRI Appliance



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SPECIFICATIONS:

Interfaces

PRI	1 or 2 ports per gateway using RJ45 connectors (2 ports only for PRI integration)
BRI	4 or 8 ports per gateway using RJ45 connectors, for 8 BRI a connectivity kit is necessary (sold separately)
GSM	4 ports per gateway, antennas with standard SMA connectors, standard SIM cards required
Ethernet	2 ports per gateway using RJ45 connectors, 10/100/1000 autosensing (Realtek RTL8111C-CR Gigabit Ethernet)
RS232	RS-232 fast UART 16550 serial port for configuration and troubleshooting
other	2 x PS/2, 2 x USB, 1 x VGA

Hardware Specifications

CPU	Intel Atom 330, 1,6 GHz, Dual Core
RAM	upto 2 GB non ECC single/Dual Channel, 533/400 MHz unbuffered (Standard version 512 MB included)
Drives	1 GB SSD for guest partition or other upon request
Power Supply	Single universal 100 - 240 V AC power supply, 200 W Low Noise
other	Intel 945GC chipset, graphics on-board GMA950 Video

Media Processing

Voice Coders	G.711, G.726, GSM, 711, iLBC, Speex (independent dynamic vocoder selection per channel)
Echo Cancellation	256 taps
QoS	802.1p/Q VLAN tagging, DiffServ DTMF/MF Transport Packet or PSTN side detection and generation, RFC 2833 compliant DTMF relay, IP Transport, VoIP (RTP)

Signaling

ISDN BRI/PRI	ETSI/EURO (Basic call and supplementary services)
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Control & Management

Control Protocol	SIP/IAX2
Operations & Management	Junghanns.NET voip-mg, embedded HTTP web server

Physical

Dimensions	height x width x depth 43 mm x 437 mm x 249 mm, gross weight 5.1 kg
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Regulatory Compliance

Telecommunication Standards	TRB3(11.95), TRB 3/A1(12.97), AS-AC/F S031:2001
Safety and EMC Standards	CE, IEC 60950-1:2001, IEC 60950/A11
Environmental Specifications	ROHS, ETS 300019-2-1 Storage T1.2

Warranty

Warranty	2 years, worldwide bring-in
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