

beroNet: Europe's leading manufacturer of VoIP Access Technologies



√ 120 GB SSD

√ 2 Network Card

√ 4 GB RAM



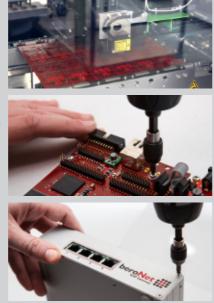


Overview

beroNet is Europe's leading manufacturer of ISDN, analog, hybrid and GSM VoIP access technologies. The worldwide first cloud managed beroNet Gateways and Appliances can be easily administrated and are remote controlled via cloud. beroNet Gateways are compatible with Unify as well as common PBX systems like 3CX, Asterisk, Askozia and many more. All beroNet Gateways and Appliances are designed and assembled in Germany.

6 good reasons for beroNet

- Long year Expert Know how 12 years of experience in VolP, Telecoms and Open Source
- VoIP Gateways "Made in Germany" Developed and manufactured in Germany
- Remote Managed VolP Gateways and PCI(e) Cards via Cloud Easy and safe Cloud Management, Remote Management and Configuration
- **High Compatibility with common PBX providers** 3CX, Askozia, Asterisk, elastix, Unify, Mitel, Lync and many more
- **Manufacturer Support** Free Manufacturer Support for certified beroNet Partners
- Modular Design for absolute Flexibility Up to 2 Modules applicable: BRI/PRI, FXS, FXO, ISDN, Analog, GSM



beroNet is an important partner of 3CX. Their engineering excellence has been proven in many joint deployments where 3CX and beroNet were able to deliver a cutting edge and reliable PBX solution for customers world wide.

30X Nick Galea, CEO of 3CX

Compatible with



















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√ 30 GB SSD

✓ 2 GB RAM

✓ 1 Network Card

Telephony Appliance

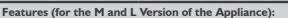
The beroNet Telephony Appliance is a complete hybrid IPBX solution with integrated beroNet Gateway. A Demo-PBX can easily be installed via USB Bootstick. The Appliance is modular and can be equipped with up to two modules: ISDN (BRI/PRI), analog (FXS/FXO) as well as GSM and can be thus adapted to different requirements. It is also available as business version with a larger hard disk, larger RAM and a second network interface or as VoIP Only Version.

Available Modules:									
1 PRI Module	4 BRI Module	2 BRI / 2 FXS Module	4 FXO Module	4 FXS Module	2 GSM Module	VolP Only			
Ideal for:									
» ISDN hybrid PBX	» ISDN hybrid PBX	» ISDN hybrid PBX	» Analog hybrid PBX	» Operation of analog devices	» GSM hybrid PBX » SMS Transmission	» IPBX Appliance			



Appliance Bootstick

The beroNet Appliance Bootstick enables a quick and easy installation of various demo PBX systems (like 3CX, Asterisk and many more) onto the beroNet Telephony Appliance. As soon as you connect the Bootstick to the Appliance a web server starts that allows you to download a PBX Image List from the Cloud which can be administrated via an intuitive Web GUI. The needed Image can than be comfortably downloaded and installed. The Bootstick provides always the latest versions of all PBX systems for download.



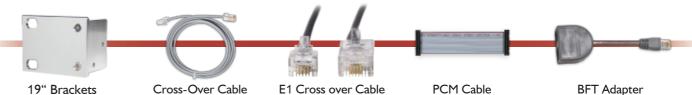


- UPnP Support (Windows Network Environment)
- Installation via Web GUI and Console
- Always current images available from the cloud
- Safe or restore your Appliance Installation

The consequent energy saving design of the Appliance as well as the fanless operation opens up a wide range of possible applications, from the data center to the office environment.

Karsten Wemheuer, CEO of IPTAM

Accessories



Made in Germany

E1 Cross over Cable PCM Cable

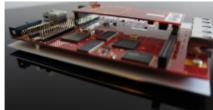




Modular VoIP Gateways

The beroNet Gateways are modular and can be equipped with up to two modules. Digital ISDN (BRI/PRI), analog (FXS/FXO) as well as GSM are available and can be combined in any combination. Thanks to their flexibility the beroNet VoIP Gateways always offer right solution for different customer requirements.







Available Modules:





















2 GSM Module

Ideal for:

» SIP Trunking » ISDN connection

Soft Migration

Soft Migration

ISDN connection

Allround Solution

PSTN connections » Failover Solution

4 FXO

Module

Analog devices Top Quality Fax Over IP

GSM connection Failover & LCR SMS transmission



Small Business Line

The beroNet Small Business Line has been developed especially for the demands of small and medium sized companies. It is available as digital (ISDN) or analog (FXS/FXO) version. The Small Business Line is ideal as entry-level device (not expandable).





Available Options:									
	ISDN		Analog						
1 BRI	2 BRI	2 BRI / 2 FXS	4 FXS	2 FXO	4 FXO	4 FXO / 4 FXS			
Ideal for:									
» ISDN connections » CAPI-option	» ISDN connections » CAPI-option	» ISDN connections » Analog devices	» Analog devices » Top Quality Fax Over IP	» PSTN connections » Failover Solution	» PSTN connections » Failover Solution	» PSTN connections » Analog devices			

You have questions about VoIP systems? We are glad to help!

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- Compatible with any PBX System
- Compatible with common VoIP Providers
- Continued operation of analog devices (Telephone and Fax devices)

16 FXS Gateway

The beroNet 16 FXS Analog Gateway has been designed to allow an easy integration of older telephone systems into IP infrastructures. It can connect up to 16 analog devices (Telephone or Fax) to an IPBX.

Available Options:							
16 FXS VoIP Gateway	16 FXS Fax VoIP Gateway						
Ideal for:							
» up to 16 analog devices (4 Fax devices T.38)	» up to 16 analog Fax devices (T.38)						

The beroNet Gateway proved itself to be a robust and fail-proof carrier grade system from day one, handling up to 5000 calls per day.

Ercan Yapalak, IT Department Zehnder GmbH



GSM Gateway

The beroNet GSM Gateway connects SIP to GSM and supports voice and SMS messaging. It includes an SMS interface as an API, an Outlook Plugin and is the ideal solution for Least Cost Routing. With an additional ISDN module, landline calls, mobile network calls as well as calls to VoIP providers can be made.

Available Options: 2 PRI 1 PRI Module Module Ideal for: » SIP Trunking

4 BRI Module

2 BRI / 2 FXS Module

4 FXO Module

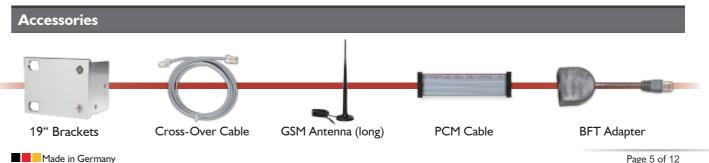
4 FXS Module E

2 GSM Module

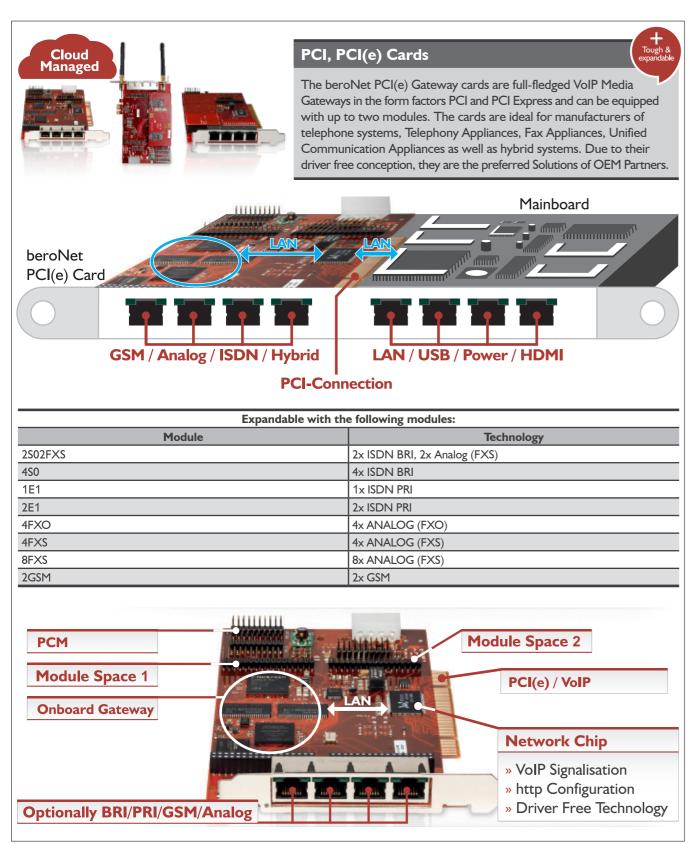
- » ISDN connection » GSM Failover
- Soft Migration GSM Failover
- Soft Migration Allround solution ISDN connection Mobile PBX GSM Failover
- PSTN connections Analog devices LCR Mobile PBX GSM Failover
 - GSM connection Failover & LCR SMS Transmission

No other Gateway is integrated faster and easier.

Niels Hansen, Systems Engineer, Dierck Kommunikationstechnik Handels GmbH







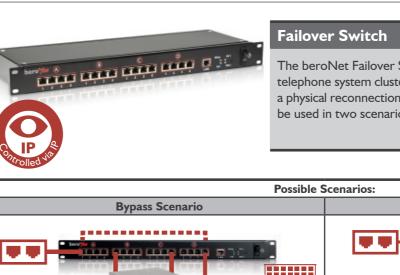
The most important factor while developing the new Askozia Appliance was the uncompromising quality of all components. Only the beroNet PCI Cards could meet this high requirements.

Sebastian Kaiser, CEO of Askozia

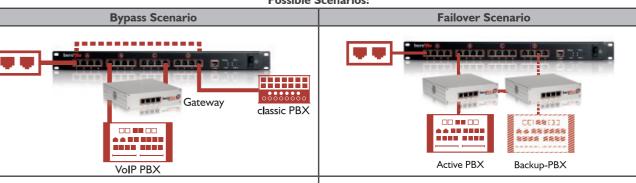
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The beroNet Failover Switch is a reliable hardware solution for telephone system clustering as well as Failover scenarios. It enables a physical reconnection of analog, BRI or PRI connections. It can be used in two scenarios: the Failover Mode or the Bypass Mode.



- » Junction of a new telephony system between the exchange ports of the existing telephony system
- » Transparent switching of the exchange port to the existing telephony system
- » Classic PBX is again connected directly to the exchange port
- » Grants the smooth and reliable operation of two PBXs side by side
- » Activation of the first system only in case of failure of the second
- » Ideal for maintenance work or Upgrades



The beroNet Failover Solution is independent of the technology. It is durable, reliable and offers automatic failover via watchdog.



With the intuitive interface of the FOS, switching into failover mode can also be done from a distance (remote switching).



With the 2 power connectors on the back of the FOS up to 2 devices can be connected to the power supply of the FOS. Thus, the Gateways can be easy manually activated or deactivated.

The beroNet Failover Switch is a high quality ISDN switch, that allows us to generate a secure Hardware Backup for our cluster. Its reliability and robustness plays a crucial role for our VoIP Solutions.

Laurent Demange, Head of Product & Sales Avencall SAS





beroNet Cloud

With the beroNet Cloud Solution Providers and Carriers can easy administrate their beroNet Gateways and PCI(e) cards in the field with any Web browser. The devices communicate with the Cloud, without compromising security, since no signal from the public Internet enters the LAN.



Advantages:

Intuitive Web GUI:

✓ Easy operation of the Cloud from any Web browser

Updates & Configuration:

✓ Configuration & Updating of all Gateways at once in the field

Location Management:

✓ Management of multiple Gateways from one central location

Absolute security:

 Gateway sends from the inside through the firewall current status to the Cloud

Overview of the most important Features: **Notifications Remote Management Easy Configuration** 001297 Friedrichstr. 231 eroNet !!! 003195 005636 (((<u>(</u>((<u>(</u>)))) » Remote monitoring, updating and With the easy to use Web GUI configuration of Gateways at Automatic E-Mail notification in of the beroNet Cloud all devices multiple locations via Cloud from case of failure can be configured easy and safe the main office

With the beroNet Cloud I can remote manage all the Gateways of my clients and don't need to worry for my own administration system. This solution saves us time and gives my clients the secure feeling, that we can react fast in case of an outfall of the PBX System.

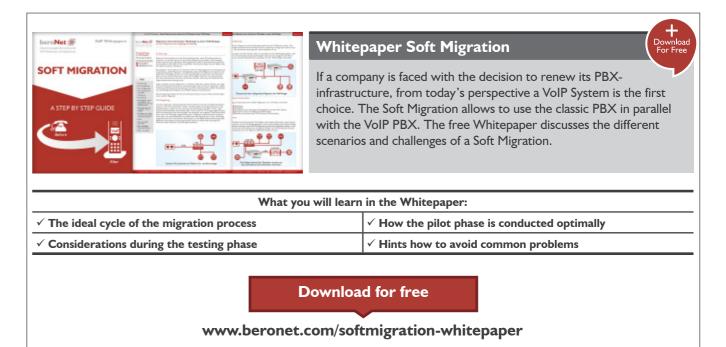
T. Richter, Integrator at Netzwerkservice

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Whitepaper ALL-IP-Transformation

What kind of consequences result in the fact, that ISDN networks will be replaced step by step with All IP networks, especially for owners of classic PBX Systems? This could mean in the worst case, that calls via ISDN are not possible anymore. The free Whitepaper discusses possible challenges and solutions.

Vhat you will	learn	in the	White	paper:
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✓ Introduction into the topic of ALL-IP	✓ Propositions for an appropriate strategy of action
✓ Possible pitfalls during a ALL-IP-Transformation	✓ Hints how to avoid common problems

Download for free

www.beronet.com/allip-whitepaper

By placing the beroNet Gateway in front of our proprietary PBX we were able to initiate a soft migration to our new VoIP PBX. beroNet Gateway proved itself as a robust, carrier grade system from day one, handling up to 5000 calls per day (internal, incoming and outgoing) while the unbeatable price of the beroNet Failover solution was the closing argument.

Ercan Yapalak, Zehnder GmbH IT Department

Made in Germany



	Gateways										
				Digital							
	Product Name	BF16001E1Box	BF64002E1Box								
	Interfaces	1x BRI ISDN	2x BRI ISDN	4x BRI ISDN	2x BRI ISDN / 2xAnalog FXS	1x PRI ISDN	2x PRI ISDN				
	Protocols	Q921, Q931	Q921, Q931	Q921, Q931	Q921, Q931	Q921, Q931	Q921, Q931				
	PTP / PMP	√/ √	√/ √	√/ √	√/ √	√/-	√/-				
	NT / TE	✓	✓	✓	✓	✓	✓				
	ISDN Features	UUS, AOC-D	UUS, AOC-D	UUS, AOC-D	UUS, AOC-D	UUS, AOC-D	UUS, AOC-D				
	ISDN Features	MCID, CD	MCID, CD	MCID, CD	MCID, CD	MCID, CD	MCID, CD				
	CLIR	✓	✓	✓	✓	✓	✓				
	CLIP	✓	✓	✓	✓	✓	✓				
es	CAPI	optional	optional	optional	optional	optional	optional				
Features	Windows Fax	optional	optional	optional	optional	optional	optional				
Fe	SIP	RFC3261	RFC3262	RFC3263	RFC3264	RFC3265	RFC3266				
	TLS	✓	✓	✓	✓	✓	✓				
	SRTP	✓	✓	✓	✓	✓	✓				
	G729 Channels	4	4	4	4	16	64				
	T38 Channels	4	4	4	4	16	32				
	G168 channels	16	16	16	16	64	128				
	Clearchannel	✓	✓	✓	✓	✓	✓				
	Module Support	-			✓	✓	✓				
	PCM	✓	✓	✓	✓	✓	✓				
	19"	-	-	✓	✓	√	✓				

*Also available as a non-modular version (Small Business Line)
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	Telephony Appliances									
		Digita			Analog					
	Product Name BNTA_2S02FXS BNTA_4S0 BNTA_1E1				BNTA_4FXO	BNTA_4FXS				
	Interfaces	2x BRI ISDN / 2xAnalog FXS	4x BRI ISDN	1x PRI ISDN		Interfaces	4xAnalog FXO	4xAnalog FXS		
	Protocols	Q921, Q931	Q921, Q931	Q921, Q931		CLIP	detection	✓		
	PTP / PMP	√/ √	√/ √	√/-		CNIP	detection	✓		
	NT / TE	√/ √	√/ √	√/ √		Flashhook	detection	-		
	ISDN Features	UUS, AOC-D	UUS, AOC-D	UUS, AOC-D		MWI	_	✓		
	ISDN Features	MCID, CD	MCID, CD	MCID, CD		Hold	-	✓		
	CLIR	✓	✓	✓		Retrieve	-	✓		
	CLIP	✓	✓	✓		Transfer	-	✓		
	CAPI	optional	optional	optional		CAPI	✓	-		
	Windows Fax	optional	optional	optional		Windows Fax	✓	-		
	SIP	RFC3264	RFC3263	RFC3265		SIP	RFC3266	RFC3266		
S	TLS	✓	✓	✓	S	TLS	✓	✓		
ure	SRTP	✓	✓	✓	l a	SRTP	✓	✓		
Features	G729 Channels	4	4	16	Features	G729 Channels	4	4		
-	T38 Channels	4	4	16	"	T38 Channels	4	4		
	G168 channels	16	16	64		G168 Channels	16	16		
	Clearchannel	✓	✓	✓		Clearchannel	✓	✓		
	Module Support	✓	✓	✓		Module Support	✓	✓		
	PCM	✓	✓	✓		РСМ	✓	✓		
	19"	✓	✓	✓		19"	✓	✓		
	Processor	Atom 2-Core 1.8Ghz	Atom 2-Core 1.8Ghz	Atom 2-Core 1.8Ghz		Processor	Atom 2-Core 1.8Ghz	Atom 2-Core 1.8Ghz		
	NIC	M-Version: 1 / L-Version 2	M-Version: 1 / L-Version 2	M-Version: 1 / L-Version 2		NIC	M-Version: 1 / L-Version 2	M-Version: 1 / L-Version 2		
	SSD	M-Version: 30GB / L-Version: 120 GB	M-Version: 30GB / L-Version: 120 GB	M-Version: 30GB / L-Version: 120 GB		SSD	M-Version: 30GB / L-Version: 120 GB	M-Version: 30GB / L-Version: 120 GB		
	Memory	M-Version: 2GB / L-Version: 4GB	M-Version: 2GB / L-Version: 4GB	M-Version: 2GB / L-Version: 4GB		Memory	M-Version: 2GB / L-Version: 4GB	M-Version: 2GB / L-Version: 4GB		

	Gateways									
		Analog				GSM				
	Product Name BF4004FXOBox BF4004FXSBox BN16FXS			Product Name	BF4002GSMBox	BF4004GSMBox				
	Interfaces	4xAnalog FXO	4xAnalog FXS	16x Analog FXS		Interfaces	2x GSM	4x GSM		
	CLIP	detection	✓	✓		Frequencies	Quadband	Quadband		
	CNIP	detection	✓	✓		Protocol	3GPP Release4	3GPP Release4		
	Flashhook	detection	-	-		SIM Slots	2	4		
	MWI	-	✓	✓		CLIP	✓	✓		
	Hold	_	✓	✓		CLIR	✓	✓		
	Retrieve	-	✓	✓		SMS	Text/PDU	Text/PDU		
	Transfer	-	✓	✓		SMS-API	REST based	REST based		
Ų	CAPI	✓	-	-	S	CAPI	-	-		
2	Windows Fax	✓	-	-	eatures	Windows Fax	-	-		
Features	SIP	RFC3266	RFC3266	RFC3266	eat	SIP	✓	✓		
"	TLS	✓	✓	✓	"	TLS	✓	✓		
	SRTP	✓	✓	✓		SRTP	4	4		
	G729 Channels	4	4	4		G729 Channels	4	4		
	T38 Channels	4	4	4		T38 Channels	16	16		
	G168 Channels	16	16	16		G168 Channels	✓	✓		
	Clearchannel	✓	✓	✓		Clearchannel	✓	✓		
	Module Support	√*	√*	-				Module Support	✓	-
	PCM	✓	✓	✓		PCM	-	-		
	19"	✓	✓	✓		19"	✓	✓		

			Telephony Appliance	es				
		GSM		VoIP Only				
	Product Name	BNTA_2GSM BNTA_4GSM			BNTAVO			
	Interfaces	2x GSM	4x GSM		Processor	Atom 2-Core 1.8Ghz		
	Frequencies	Quadband	Quadband	S	NIC	2		
	Protocol	3GPP Release4	3GPP Release4	l E	SSD	120GB		
	SIM Slots	2	4	Features	Memory	4GB		
	CLIP	✓	✓	"	19"	✓		
	CLIR	✓	✓		USB 2.0 Ports	4		
	SMS	Text/PDU	Text/PDU		beroNet A	ppliance Bootstick		
	SMS-API	REST based	REST based					
	CAPI	-	-		Character of the contract of t	······································		
	Windows Fax	-	-		Anne			
	SIP	✓	✓		e			
	ß TLS	✓	✓		Memory 8GB			
	SRTP G729 Channels	4	4		Connection	USB 2.0		
	G729 Channels	4	4					
	T38 Channels	16	16	S	PBX Systems	3CX. Askozia Asterisk elastix		
	G168 Channels	✓	✓	ure	ĺ	(PTAM [®] pascom № Vodia		
	Clearchannel	✓	✓	Features	Operation System	Linux, Windows 7 & 8		
	Module Support	✓	-	"	Configuration	WebGUI & Console		
	PCM	-	-					
	19"	✓	✓			» DHCP		
	Processor	Atom 2-Core 1.8Ghz	Atom 2-Core 1.8Ghz			» UPnP		
	NIC	M-Version: 1 / L-Version 2	M-Version: 1 / L-Version 2		Functions	» Save images on the Stick		
۰	SSD	M-Version: 30GB / L-Version: 120 GB	M-Version: 30GB / L-Version: 120 GB			» Backup & Recovery of		
	Memory	M-Version: 2GB / L-Version: 4GB	M-Version: 2GB / L-Version: 4GB			the Installation		



beroNet advantages at a glance

Exclusive for beroNet Partners

For free: Cloud Management

Remote manage all beroNet devices easy and safe in the beroNet Cloud

Modular: BRI, PRI, Analog, GSM Ideal for a wide variety of customer requirements



Highly compatible
Compatible with
3CX, Askozia, Asterisk

Become beroNet Partner now

www.beronet.com/partners

