

# WE PROTECT YOUR PRIVACY

## NEXT LEVEL PRIVACY FOR YOU AND YOUR BUSINESS

DN8

[www.DN8.co](http://www.DN8.co)

**MAKE SECURE AND ANONYMOUS PHONE CALLS, NOW!**

## PRIVACYPHONE MOBILE

*"DN8's PrivacyPhone guarantees the strongest encryption and offers daily encryption key changes!"*

**YOUR PRIVACY AND DATA ARE YOURS!**

**THE WORLDWIDE SAFEST COMMUNICATION SOLUTION!**



# A SOLUTION YOU CAN TRUST!

## HOW WELL ARE YOU AND YOUR BUSINESS PROTECTED?

### The revelations by Edward Snowden,

if anything, have clearly shown that all telephone calls are being tapped, regardless of whether they are landlines, cell phones, or Voice over IP (VoIP). Even Angela Merkel's cell phone has apparently been compromised with ease by the NSA. But eavesdropping does not only affect politicians; more and more companies are offering, more or less openly, a variety of efficient spy software services. These are increasingly being used for corporate espionage, domestically and internationally.

DN8 Networks' goal is to stop such attacks on your privacy and your business. PrivacyPhone Mobile has been developed with this objective in mind. It operates in its own international VoIP telephone network that has been implemented based on its high-security VPN.

This network stands apart by using its own infrastructure at all nodes, multiple encrypted communication paths with 5,000 - 8,000-bit keys that are mathematically difficult to attack, and a unique automated key exchange mechanism. These safety measures make it impossible, even for intelligence agencies, to listen in. The technical effort to crack this kind of encryption exceeds by far today's computational resources.



### Periodic Exchange of Encryption Keys

Every VPN Gateway runs beside the VPN Service the Kbad Service (Key build and distribution system). Using this service, each PrivacyPhone retrieves regularly new encryption keys and certificates. The VPN Gateway generates daily new keys and distributes them in a secure way to the PrivacyPhones. Just like the VPN Service, Kbad uses TLS1.3 with AES256, AEAD, PFS, GCM, and DHE.

## PROTECT YOUR BUSINESS SECRETS FROM UNAUTHORIZED ACCESS!



### Encryption Key Sizes

Normal encryption schemes use static key sizes like 1024 bits, 2048 bits, 4096 bits, etc. We use exclusively key lengths that are safe prime numbers, e. g. 5717 bits. One of our research projects has shown that encryption keys are particularly difficult to compute when they contain prime numbers. Big clusters for brute force attacks are not optimized to cope with such modified key sizes. Our VPN Gateways use dynamically generated keys with prime number lengths between 5000 and 8000 bits. Hence, a compute cluster for brute-forcing has to evaluate the new key size after every key change and has thereupon only 24 hours to break the new key.

- No mathematical vulnerabilities, as prime numbers allow no mathematical operations other than division by 1 and themselves.
- Key Brute Force Clusters can't be optimized.

### Is it really absolutely safe?

- Even if the key pair of an individual user was compromised, this could only be exploited for a few hours. Thereafter, the keys including the certificate will be newly generated and distributed. Other users would never be affected.
- All passwords and hash codes are fully dynamic and will never be reused.
- The daily key distribution cycle can be modified arbitrarily and is scalable when needed.
- All encryption keys are signed only for the duration of their cycle and are useless afterward; particularly as they no longer correspond to their certificates.

# MAKE SECURE PHONE CALLS, NOW!

## CHOOSE THE OPTIMAL SOLUTION

# PRIVACYPHONE MOBILE

### Main Functions of PrivacyPhone Mobile

- Easy to use
- Operational worldwide
- Secure VoIP audio- and video telephony
- Encrypted messenger
- Anonymous and secure access to the internet
- Maximum protection by leading-edge technology
- Intelligent firewall
- Short-time keys
- Intrusion detection system IDS
- Intrusion prevention system IPS
- 24/7 support hotline

### Technical Specifications of PrivacyPhone Mobile

- Hardened DN8 Network OS
- Snapdragon 8-core processor
- Crypto co-processor
- 6GB RAM main memory
- 6.8-inch screen 2460x1080 pixels
- 128GB storage
- 2,4/5Ghz WIFI a/b/g/n/ac standard
- LTE/UMTS/GSM cell phone standard
- Dual SIM
- 6000mAh lithium polymer battery
- 108 megapixel camera
- Weight 225g (7.94 oz)

### Main Features Regarding Anonymity and Security

The PrivacyPhone Mobile communicates in a highly secure telecommunications network with its own infrastructure. All calls are highly encrypted based on our proprietary DN8 network technology.

- Secure messaging based on our proprietary PrivacyPhone Mobile App.
- Encrypted anonymous internet access.
- Send and receive emails securely and anonymously.
- Tracking protection – automatic blocking of tracking services to maintain your privacy.
- Intelligent content filter – filters certain unwanted content from the internet.

### Simplest Operation and Absolute Privacy

Every smartphone user can operate a PrivacyPhone Mobile. It offers "plug-and-secure" data security right out of the box.

### A Design Without Compromise for Your Safety

- No GPS – the GPS receiver is deactivated; no locating possible.
- No Bluetooth – the Bluetooth module is deactivated.
- Data transfer via the USB-C port is deactivated.
- No installation of third-party apps (e.g. social media apps) possible.
- IDS – Intrusion Detection System to detect outside attacks.
- IPS – Intrusion Prevention System – modifies or interrupts the data stream in case of an alarm and actively influences the rules of the firewall.
- Everything from a single source - company owned infrastructure, servers and data centers.





# WE PROTECT YOUR PRIVACY

## PRIVACYPHONE MOBILE

One-time price of device:

**Price on request**

Includes:

- PrivacyPhone Mobile
- USB-C cable
- Charger
- microSD card

MAXIMUM PROTECTION GUARANTEED



## PRIVACYNET WORLDWIDE

PrivacyNet

**BASIC**

with monthly payment

**Price on request**

cancellable monthly

PrivacyNet

**PREMIUM**

Term of 24 months  
with biannual payment

**Price on request**

Immediate Discount 20%

PrivacyNet

**ADVANCED**

Term of 12 months  
with annual payment

**Price on request**

Immediate Discount 10%

Communicate worldwide inside the DN8 network and with unlimited data.  
Internet connections via WIFI or data SIM card not included.

\* all prices and rates excl. VAT

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**WE CARE ABOUT YOUR PRIVACY!  
CALL US NOW!**

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