special audio and GPS tracking devices
GEDION

SURVEILLANCE AND SECURITY ELECTRONICS EXPERTS

Gedion has considerable experience developing and manufacturing equipment for collecting and protecting sensitive information. The key areas of our activity are covert audio surveillance and location tracking.

International team of seasoned engineers and tight co-operation with governmental law enforcement agencies allows us to introduce new solutions with some truly unique features.
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Sha-ked card is an ultra-thin voice recorder disguised as a credit card that provides exceptionally high quality (41 kHz, 24 bit) audio recordings.

The Bluetooth transmitter makes it possible to live-stream audio to a smartphone or a BT / 4G relay.

The device is equipped with a GPS receiver which allows to store the location where the recording has been made.

The GPS logger is activated by a high precision motion sensor.

In addition to the GPS module, Sha-ked Audio features an NFC tag and can be used as an ordinary key card.

The recorder can be controlled remotely allowing to start recording or streaming and control the collection of GPS logs.

For stealth operations, the device can be set to initiate the data transfer via Bluetooth only at specific locations (if the GPS signal is available) or according to a schedule. Alternatively, the data can be requested by sending a Bluetooth command.

The data can be downloaded by connecting Sha-ked Audio to a PC or it can be sent to an Android device with a companion application.
Sha-ked card
Audio / GPS / Bluetooth / NFC

KEY FEATURES
- Audio recorder
- GPS receiver
- Bluetooth transmitter
- NFC

Bluetooth 5 features:
- Bluetooth range 30-50m
- Consumption rates:
  - Audio stream: 2 mA
  - Data upload: 12 mA
  - Stand by: 0.1 mA
  - BT upload speed: 1Mb/s
  - Continuous stream on 1 charge: 60 h
  - Amount of data transferred on 1 charge: 4.2Gb
  - Hidden mode

Audio features:
- Bit rate: 4 bit-24 bit
- Sampling rate: 4KHz-41 Khz
- Rec duration: 100 h (8bit@8Khz)
- Consumption rate in REC mode: 1.2-2mA
- Capacity: 16 GB
- Proprietary file system
- Encryption: AES256

GPS features:
- Consumption rates:
  - Always on: 32 mA
  - GPS log each 1 h: 20 days
  - Cold start: 60-120 sec
  - 1000 GPS logs over 2-3 sec (30 m LOS)
Noa A1 introduces a new standard for the size of concealable audio recording devices.

The tiny recorder can be easily hidden absolutely anywhere - mounted inside a wall or enclosed in a pen, placed in a car or sewn into clothes — the possibilities are countless.

Despite its small size, the device delivers crystal clear audio recordings with 41 kHz sampling rate and 24-bit discretization.

Noa A1 is equipped with a Bluetooth transmitter. Recording can be activated by a radio command or VOX. Operation according to schedules is also configurable.

The recordings can be downloaded to a PC via USB or sent to an Android device via Bluetooth.

Noa A1 comes with a cylindrical battery with capacity of 20/40 mAh.

**SPECIFICATIONS**
- PCB dimensions: 28 x 6 x 2 mm
- Storage: 512 MB (Max 35 h)
- BT download speed: 1 Mb/s
- USB transfer speed: 1 Mb/s
- Consumption rates:
  - Recording: 1.1 mA (min)
  - Streaming: 1.7 mA (ave)
  - BT stand by: 0.035 mA (ave)

**KEY FEATURES**
- 24 bit, 41Khz
- Voice activation, schedule
- Remote files upload
- Remote RF activation
- Proprietary file system
- AES-256 bit encryption
- Time stamp
- Watermark
Noa A2 - Second generation of Noa A1 audio recorder

We have listened closely to the feedback on the super miniature Noa A1 recorder, and we would like to present an improved solution for covert audio surveillance for those who need even more.

The main features of Noa A2 are:

- Extended storage, now up to 32 GB
- Internal/external BT antenna ensures reliable audio stream and data transfer at the distance of up to 250 using special Android app
- The Bluetooth range can be increased up to 2.5 times using a 3G/BT micro relay
- External mike and an efficient audio codec
- Compatibility with Gedion Audio Server for remote management of multiple devices

**SPECIFICATIONS**

- Size: 188.8 x 19.8 x 5.2 mm / 0.74 x 0.77 x 0.20 Inch
- Storage: 32GB (Max 70 days)
- Trigger: Voice activation, schedule, BT activation, button
- BT download speed: 1 Mb/s
- USB transfer speed: 2 Mb/s
- Bluetooth Radio gain 3 - 130 mW
- VOX: 0.9 mA / Recording: 3.4 mA - 5.5 mA
- Streaming 8kHz: 3.7 mA - 10.2 mA
- Data transfer: 13.7 mA - 174 mA
- BT stand by: 0.06 mA - 0.76 mA

**KEY FEATURES**

- 24 bit, 44Khz
- Trigger: Voice activation, schedule, BT activation, button
- Remote files upload
- Proprietary file system
- AES-256 bit encryption
- Time stamp
- Radio anti-sweeping mode / BT Hidden mode
A special Android application or Bluetooth/3G micro relay allows to get online audio stream, configure and download the audio files remotely via internal Bluetooth transmitter.

The Hidden Mode makes a Noa A2 device with active BT receiver invisible for any Bluetooth scanner except operator’s Android device (or 3G/BT micro relay).

Alternatively, the configuration is available through USB cable.

Recommended devices are Samsung Galaxy S8/S9/S10 or A40/A50/A60 smartphones.
Noa pencil - miniature audio recorder with BT transmitter for short term operation. Covert switch for activating recording manually. Continuous recording up to 35 hours. 100% real pencil which you can even sharpen.

Despite its small size, the device delivers crystal clear audio recordings with 41 kHz sampling rate and 24-bit discretization.

Bluetooth link allows you to get online audio stream or download the audio files from anywhere thanks to 3G/BT micro relay or Gedion Connect Android app.

Works on Bluetooth 5 Android Samsung Galaxy S8/S9/S10 or A40/A50/60...

Customized pencil design and graphics are available on request.

### SPECIFICATIONS
- Real pencil
- Storage: 512 MB (Max 35 h)
- BT download speed: 1 Mb/s
- USB transfer speed: 2 Mb/s
- Audio stream duration: 20 hours
- BT standby duration: 45 days
- Trigger: Voice activation, schedule, BT activation, button

### KEY FEATURES
- 24 bit, 41Khz
- Trigger: Voice activation, schedule, BT activation, button
- Remote files upload
- Encrypted BT communication / BT Hidden mode
- Proprietary file system
- AES-256 bit encryption
- Time stamp
- Watermark
A special Android application or Bluetooth/3G micro relay allows to get online audio stream, configure and download the audio files remotely via internal Bluetooth transmitter.

Alternatively, the same can be done using a PC application with USB connection.

Relying on Bluetooth technology makes the radio receiver undetectable by sweeping tools as it has Bluetooth Hidden mode.
We are proud to present our latest audio recorder disguised as an ordinary SD card.

**Noa SDR** provides exceptionally high quality audio recordings which can be scheduled, automatically activated by voice, or activated by Bluetooth command.

The switch that is naturally present on the side of an SD card is available on **Noa SDR** as well and can be used to trigger the recording process.

An LED indicates the battery charge, amount of free memory and device operation status.

The recorder can operate continuously while it is powered from a computer slot.

However the SD will not appear as an usual SD storage to the target (computer user).

**KEY FEATURES**

- 24 bit @ 41 kHz audio quality
- 16GB internal memory
- LiPol battery – 13mAh
- Proprietary file system
- REC memory 260 hours (16bit@16 kHz)
- AES-256 bit encryption
- BT Hidden mode
- BT download speed – up to 1 Mbit
- Audio stream up to 40 m (on Android device BT5)

- Can record while inserted in the SD slot
- Bluetooth 5
- Store and forward technology
- Can act as radio microphone
- Consumption rate – 1.3 mA while recording
- Up to 10 hours of continuous recording
- Remote control via Android app (configuration, download)
- USB speed – 30 Mbit
A special Android application or Bluetooth/3G micro relay allows to get online audio stream, configure and download the audio files remotely via internal Bluetooth transmitter.

Alternatively, the same can be done using a PC application while Noa SDR is inserted into an ordinary SD card slot.

Noa SDR features proprietary file system and AES256 encryption. 32 GB of internal memory provides 260 hours of superb audio (16 bit @16 KHz).

Relying on Bluetooth technology makes the radio receiver undetectable by sweeping tools as it has Bluetooth Hidden mode.
Noa 3G/BT micro relay is designed to work with audio store and forward devices of the Noa series – Noa A1, Noa SDR, Noa credit card.

The relay provides a remote connection between a covert Noa device and a server or operator’s mobile phone.

The server upload speed is up to 1 Mbps depending on the GSM/3G network. The operator can make a GSM/3G call to listen to the recorder’s environment, download audio recordings from the Noa device and configure it.

The micro relay can be activated by a switch or its activation can be scheduled. This allows the operator to connect to a Noa device even if it is set to work in the hidden mode when no other TSCM device can discover it.

The Bluetooth radio range can reach up to 100 m LOS (maintaining 500 kbps download speed).

Due to its small size, the relay can be easily concealed in the target/subject’s clothes, shoes, accessories etc.

The Noa micro relay can alternately communicate with multiple Noa devices.

**KEY FEATURES**

- Quadband GSM/3G module (EU, NA, Asia, Australia)
- On/Off switch
- Bluetooth 5
- External antennas
- Rechargeable LiPo battery
- LED indication
Gedion audio server is designed to work in conjunction with Noa store and forward devices and Noa 3G/Bluetooth micro relay.

**MAIN FEATURES**

- Remote audio device configuration
- Audio stream
- File downloading
Storm Wi-Fi
Miniature voice recorder
with built-in Wi-Fi transmitter

Storm is a miniature store & forward voice recorder which represents a new standard for covert surveillance over Wi-Fi network

Powerful and cutting edge
Smart and discreet
Fast and aggressive

Works in both 2.4Ghz and 5Ghz ranges
Can act as Access point or Client
Transmits data at speed up to 30 Mbit/s
Download of 24 hours continuous recording in 12 min
Simultaneous uploading, recording and live stream
WiFi transmission range 100-200 m LOS

Remote system control via Web/PC GUI. Multiple devices management

KEY FEATURES

Security:
Encrypted real-time audio streaming (AES256)
Encrypted communication channel FTP via SSL
Audio files encryption AES256
Hidden SSID
Proxy server for bridging

Audio resolution 4 bit - 24 bit
Sample rate 8 kHz - 48 kHz
VOX, Scheduled, RF control activation
Audio input 2 External microphones
Encryption AES256
Data storage microSD up to 256 GB

WiFi bands 2.4/5GHz
Upload speed for 5GHz up to 30 Mbit/s
Upload speed for 2.4 GHz up to 25 Mbit/s
Wi-fi range 50-200 m LOS
2 external WiFi antennas
Configurable, random MAC address
Remote RF control 500-1000 m

Physical parameters:
PCB size 60x25.5x5 mm (2.36 x 1.00 x 0.20 in)
Li-Pol battery 4.2V
Voltage input 6 - 30 V
On/Off switch

Remote RF keyfob for WiFi activation with up to 1 km range (coming soon)
EshDat - presents a digital radio-controlled store and forward system for covert audio surveillance. Encrypted long range transmission.

The system consists of a miniature stereo voice recorder-transmitter and a radio receiver that provides full control over the transmitter.

The recording process can be activated according to schedules, VOX or by a radio command.

The user can manipulate up to 5 different transmitters using one receiver.

Each transmitter can work on a different radio frequency.

Multiple operating modes allow keeping the system working in the stealth mode.

Main benefits:
- Multiple transmitters management
- Adjustable radio gain & radio range
- OFDM modulation ensures reliable operating in urban scenarios.
- Adaptive download speed
- LCD screen makes finding the best location for signal reception easy
- Encrypted audio stream

Store&Forward Technology
The EshDat transmitter can operate in six different modes:

- Audio Live Stream
- Audio Live Stream with simultaneous recording on the transmitter
- Audio Live Stream with simultaneous recording on the receiver
- Audio recording only, no RF activity
- Audio files transmission
- Standby

The receiver features an LCD screen, which provides a clear interface for controlling the EshDat system.

The operator can request information on the status of all transmitters in the coverage area and select any of them to download recordings or start the live stream.

The receiver is equipped with an audio output for connecting headphones and listening to the recordings right from the receiver.

In addition, the transmitter settings can be remotely changed from the receiver. The downloaded audio files are stored on the microSD card.

**KEY FEATURES**

- AES-256 encryption
- Time stamp
- Live Stream
- Simultaneous recording and streaming
- VOX-activated or scheduled recording
- Programmable radio activity
- MicroSD memory up to 128 GB
- Two high sensitivity microphones for stereo audio
- 44 kHz, 16-bit audio

**SPECIFICATIONS**

- RF range: 424-447 / 850-910 / 925-964 Mhz
- RF output: 1 - 400mW / Modulation: OFDM,QPSK
- Upload speed up to 1 Mb/s
- Stream distance: up to 2 km LOS / 1.24 miles
- Operating distance: up to 3 km LOS / 1.86 miles
- Data transmission distance: 500-800 m LOS 0.3-0.5 miles
- RF channels: 40
- Supply voltage 3-16 V
- External RF antenna
- Dimensions: 40x17x4mm / 1.57x0.67x0.16 inch
Nevo Deep was specifically designed for covert installation. It is just 1.4 mm thick, so it can be easily concealed anywhere: sewed into clothes, hidden inside a book, in furniture and so on.

Our voice recorder consumes less than 3 mA during recording and just about 0.1 mA in standby mode, therefore, even a tiny battery provides enough power for a long autonomous operation.

Nevo Deep is a stand-alone voice recorder providing an independent performance for up to 5.5 hours. It’s controlled from a radio remote control, disguised as a small key fob. There is an LED and a Vibrator integrated in the key fob for command confirmation and memory/battery status indication.

Recording distance capability - 20m

Superior audio quality - 24bit

Nevo Deep records audio with up to 24-bit resolution at 8/16/24 kHz sampling frequencies. It also supports 4-bit ADPCM compression for memory saving.

Other features developed for power and memory saving are Voice Activation System and Scheduled Recording System.

Nevo Deep can be set to record according to the level of sound, a specific time and date or weekly basis. External microphone allows to hiding the recording module with more comfort and reliability.

KEY FEATURES

- Size: 25*62*1.4mm
- Rec time on internal LiPol bat 2-5.5 hours
- External power supply – 2,2-5,5 V
- RF remote control up to 15 m.
- Audio resolution 16/24-bit
- Sample rate 8/16/24 KHz
- 3 mA in recording mode (average quality)
- 0,1 mA in standby mode (radio OFF)
- Max recording time 150 hours@8 KHz (ADPCM)
- Password protected access to the stored data
- VAS, Scheduled, manual recording modes
- Proprietary file system
- Digital Signature
- External microphone (optional)
- 4 RF channels
Nevo FX Radio is a second generation of Nevo credit card recorder with RF remote control instead of swipe contact for different way of use and improved consumption rate.

It is characterized by high microphone sensitivity that allows high quality voice recording even in difficult acoustic conditions like noisy environments or outdoor.

The voice recorder ultra-low power consumption allows it to record continuously for more than 52 hours. The highest audio quality is 24bit @ 24kHz. Implemented Voice activation system significantly extends this time to 190 h in stand-by mode.

The RF remote control has 4 different channels so You can operate multiple devices in the same premises.

Nevo FX Radio credit card voice recorder is supplied with a USB adaptor for records download and configuration settings. The records can be set to have metadata with additional information about the records, and to have limited password protected access.

The Nevo FX Radio is controlled by remote RF key fob.
Nevo FX is a small-sized audio recorder with a footprint of a credit card and a thickness of 1.5 mm.

It is characterized by high microphone sensitivity that allows high quality voice recording even in difficult acoustic conditions like noisy environments or outdoors.

The voice recorder ultra-low power consumption allows it to record continuously for more than 55 hours. The highest audio quality is 24bit @ 24kHz. Implemented Voice activation system significantly extends this time.

Nevo credit card voice recorder is supplied with a USB adaptor for records download and configuration settings. The records can be set to have metadata with additional information about the records, and to have limited password protected access.

A special feature of Nevo FX is touch swipe interface.

The voice recorder has no mechanical buttons, therefore it is more robust and indistinguishable from a regular smart card.
Kabuto AES voice recorder was designed for covert audio surveillance. Despite its tiny size and low power consumption it is characterized by high quality sound recording, expanded operational voltage range and wide choice of settings.

The sound is captured with 12/8 bit resolution at sampling frequencies from 5 to 48 kHz and saved to a microSD card (up to 128 GB) uncompressed or with 4bit ADPCM compression.

Kabuto AES can be configured to protect the recorded files from unauthorized listening with AES128 encryption.

**KEY FEATURES**

<table>
<thead>
<tr>
<th>Feature</th>
<th>8 bit</th>
<th>12 bit</th>
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</thead>
<tbody>
<tr>
<td>Audio resolution</td>
<td>8 bit</td>
<td>12 bit</td>
</tr>
<tr>
<td>Sample rate</td>
<td>5kHz - 48kHz</td>
<td>4bit ADPCM</td>
</tr>
<tr>
<td>Compression</td>
<td>WAV</td>
<td>FAT32</td>
</tr>
<tr>
<td>Voice recording format</td>
<td>WAV</td>
<td>FAT32</td>
</tr>
<tr>
<td>File System</td>
<td>AES128</td>
<td>AES128</td>
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<tr>
<td>Encryption</td>
<td>microSD/SDHC (128GB max)</td>
<td>microSD/SDHC (128GB max)</td>
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<tr>
<td>Memory</td>
<td>2.9-16 V</td>
<td>2.9-16 V</td>
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<tr>
<td>Power supply</td>
<td>ADPCM 4bit</td>
<td>ADPCM 4bit</td>
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<td></td>
<td>0.6 mA</td>
<td>0.6 mA</td>
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<td>0.9 mA</td>
<td>0.9 mA</td>
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<td></td>
<td>3.3 mA</td>
<td>4.2 mA</td>
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<td>5.0 mA</td>
<td>7.1 mA</td>
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<td>6.4 mA</td>
<td>9.6 mA</td>
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<td></td>
<td>11.7 mA</td>
<td>18 mA</td>
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<td>Power consumption @ sample frequencies:</td>
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<tr>
<td>Schedule</td>
<td>Schedule</td>
<td>Schedule</td>
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<td>VOX</td>
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<td>VOX</td>
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<td>8kHz</td>
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<td>0.6 mA</td>
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<tr>
<td>16kHz</td>
<td>0.9 mA</td>
<td>0.9 mA</td>
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<tr>
<td>24kHz</td>
<td>3.3 mA</td>
<td>4.2 mA</td>
</tr>
<tr>
<td>44kHz</td>
<td>5.0 mA</td>
<td>7.1 mA</td>
</tr>
<tr>
<td>Dimensions (mm):</td>
<td>21.2 x 15.3 x 5.3</td>
<td>21.2 x 15.3 x 5.3</td>
</tr>
</tbody>
</table>

*Samsung EVO microSDHC U1 16 GB*
Kabuto AES Mini is equipped with 180 mAh rechargeable battery for quick deployment and provides around 25 hours of continuous recording with 12 bit resolution at 16 kHz sampling frequency. Special micro charger is supplied with the kit for charging and continuous operation. The recorder can be powered from 5V external power supply to provide an extended performance.

The sound is captured with 12/8 bit resolution at sampling frequencies from 5 to 48 kHz and saved to a microSD card (up to 128GB) uncompressed or with 4bit ADPCM compression.

Kabuto AES Mini can be configured to protect the recorded files from unauthorized listening with AES128 encryption.

**KEY FEATURES**

<table>
<thead>
<tr>
<th>Audio resolution</th>
<th>8 bit or 12 bit</th>
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</thead>
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<tr>
<td>Sample rate</td>
<td>5kHz – 48kHz</td>
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<td>Compression</td>
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<td>Voice recording format</td>
<td>WAV</td>
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<tr>
<td>File System</td>
<td>FAT32</td>
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<tr>
<td>Encryption</td>
<td>AES128</td>
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<tr>
<td>Memory</td>
<td>microSD/SDHC (128GB max)</td>
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<tr>
<td>Power supply</td>
<td>Li-Pol, 180 mAh (rechargeable)</td>
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</table>

<table>
<thead>
<tr>
<th>Power consumption @ sample frequencies:</th>
<th>ADPCM 4bit</th>
<th>12 bit</th>
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</thead>
<tbody>
<tr>
<td>Schedule</td>
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<tr>
<td>VOX</td>
<td>8 days</td>
<td>8 days</td>
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<tr>
<td>8kHz</td>
<td>54 hours</td>
<td>42 hours</td>
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<tr>
<td>16kHz</td>
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<td>25 hours</td>
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<tr>
<td>24kHz</td>
<td>28 hours</td>
<td>18 hours</td>
</tr>
<tr>
<td>44kHz</td>
<td>15 hours</td>
<td>10 hours</td>
</tr>
</tbody>
</table>

Dimensions (mm): 34.2 x 20.4 x 9.4

*Samsung EVO microSDHC U1 16GB

www.gedion.it
Kabuto AES Stereo voice recorder was designed for covert audio surveillance. Despite its tiny size and low power consumption it is characterized by high quality Stereo sound recording, expanded operational voltage range and wide choice of settings.

The sound is captured with 12/8 bit resolution at sampling frequencies from 5 to 48 kHz and saved to a microSD card (up to 128 GB) uncompressed or with 4bit ADPCM compression.

Kabuto AES Stereo can be configured to protect the recorded files from unauthorized listening with AES128 encryption.

Kabuto AES Stereo allows to record both audio channels into one general file or two separate files for post audio processing.

### KEY FEATURES

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
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<tbody>
<tr>
<td>Audio resolution</td>
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<tr>
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<td>5kHz - 48kHz</td>
</tr>
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<td>Compression</td>
<td>4bit ADPCM</td>
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<tr>
<td>Voice recording format</td>
<td>WAV</td>
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<tr>
<td>File System</td>
<td>FAT32</td>
</tr>
<tr>
<td>Encryption</td>
<td>AES128/256</td>
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<td>Memory</td>
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<td>Power consumption @ sample frequencies for one channel:</td>
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<tr>
<td>8kHz</td>
<td>3.3 mA</td>
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<td>16kHz</td>
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<tr>
<td>24kHz</td>
<td>6.4 mA</td>
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<tr>
<td>44kHz</td>
<td>11.7 mA</td>
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<tr>
<td>Dimensions (mm):</td>
<td>21.2 x 15.3 x 5.3</td>
</tr>
</tbody>
</table>

*Samsung EVO microSDHC U1 16 GB

To save the energy and memory space, Kabuto AES Stereo voice recorder supports Voice Activation System and time scheduled recording.

Kabuto AES Stereo can be set to wake up and record at exact dates and times or on weekly basis.

www.gedion.lt
Kabuto Hard is a new generation of Kabuto AES audio recorder designed for extreme operating conditions.

Kabuto Hard is equipped with a rechargeable 280 mAh battery and provides up to 32 hours of continuous recording with sampling rate of 16 kHz. The design is kept simple with just a single slider which switches the device on and off. The high-strength aluminium casing of Kabuto Hard ensures that the device withstands extreme bumps and tosses. The recordings are stored on a removable microSD with capacity of up to 128 GB.

Kabuto Hard can be configured to protect the recorded files from unauthorized access with AES 128/256 bit encryption.

To save energy and memory space, Kabuto Hard supports Voice Activation System and time-scheduled recording modes.

### KEY FEATURES

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
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<tr>
<td>Audio resolution</td>
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<td>Compression</td>
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<td>Voice recording format</td>
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<tr>
<td>File System</td>
<td>FAT32</td>
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<tr>
<td>Encryption</td>
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<td>35 hours 32 hours</td>
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<tr>
<td>24kHz</td>
<td>32 hours 27 hours</td>
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<tr>
<td>44kHz</td>
<td>18 hours 13 hours</td>
</tr>
<tr>
<td>Dimensions (mm):</td>
<td>46.3 x 19.1 x 10</td>
</tr>
</tbody>
</table>

*ADATA microSDHC Class4 16GB  

www.gedion.lt
Sha-Ked
A miniature GPS Logger delivering supreme transfer speed of GPS logs via BT channel.

Apart from its small size and extremely low power consumption, its distinct characteristics are accurate GPS positioning and reliable Bluetooth data transmission. Sha-Ked can be easily concealed in carton box wall, clothes (for instance, it can be sewn into a shirt collar), jewelry or electronic appliances and gadgets.

The GPS logger is equipped with a motion sensor, a physical button and internal GPS and BT antennas. To get maximum performance the user can utilize an external antenna.

KEY FEATURES

- Randomly generated BT MAC address
- GPS LOGS standard: KML, JSON (configurable)
- GPS & BT Jamming detection
- Gedion GPS tracking server compatible
- BT Hidden - antidetection mode
- Maximum BT range - 100 m
- The data collected in a 7 days period (assuming 7 hours of travelling a day) is transferred in just 8 secs - 50 m LOS
- Directional finding mode for positioning to within 0.5 m
- Configurable logs transmission at specific time, geo-fence or manually initiated.
Sha-Ked
A miniature GPS Logger delivering supreme transfer speed of GPS logs via BT channel.

The Bluetooth can work in hidden-mode which a perfect solution for covert operation securing the device from being detected by means of radio sweeping tools.

We provide an Android app to collect the data and upload to the Gedion tracking server, set configuration and even use directional finding method to locate the GPS logger with accuracy of 0.5m.

All stored data is protected with AES 256 encryption. The radio transmission can be activated on the scheduled time, activated in a certain geo-zone or it can be triggered externally.

Technical details:
- Bluetooth 5
- Logging every 15 sec /BT OFF – 3.5 mA (Hot Start)
- Logging every 5 min /BT OFF – 0.53 mA
- GPS OFF, BT Hidden mode – 1-2mA
- Motion sensor ON, GPS/BT OFF — 30 uA
- BT transmission – 10-30 mA (adjustable)
- Transmission of 1000 GPS logs – 2-3 sec
  (50 m LOS, Internal Antenna, Samsung S8)
- Size: 21x27x3.3
- Weight: 3g
Sha-Ked Tracker
GEDION
GPS-3G/GSM-BT miniature tracking device

Introducing the new standard for a wearable tracker engineered specifically for short-term operations or for hidden installation in small household devices or accessories.

The advanced GPS/GLONASS receiver determines the position within no more than 30 seconds even in difficult weather conditions.

The tracker has flexible external 3G/GSM and GPS antennas, as well as a Bluetooth transmitter.

It can work in the online mode, sending GPS positions to the server immediately once logged. Alternatively, it can operate in the accumulation mode, without connecting to a mobile network.

The accumulated GPS logs can later be transferred to a computer or downloaded to your Android smartphone via a companion application.

The tracker features an accelerometer and can be equipped with a SOS button if desired.

For maximum reliability, the tracker can perform positioning based on the Cell ID when there is no GPS signal.

If there is no mobile network connection, all data is written to the internal memory for subsequent transmission.

Device operation is fully customizable with numerous settings such as activation from movement, transfer of the accumulated information on schedule or via a Bluetooth command, log filtering based on speed or distance, and many more.

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**General parameters:**
- Size: 33x22x6.5 mm
- Weight: 15 grams
- External GPS, 3G, GSM antenna
- Internal BT antenna
- Accelerometer
- Internal memory: 512 mb
- 256 Bit end-to-end encryption
- Minimum transmission interval: 1 sec
- Temperature range: -20 °C to +70 °C
- Operating time:
  - Active tracking every 1 min: up to 9 hours
  - Active tracking every 1 hour: up to 25 days

**Mobile modem:**
- Worldwide UMTS/GPRS
- 800, 850, 900, 1900, 2100
- Jamming detection

**GPS receiver:**
- GPS Acquisition
- Cold start: 26-60 s
- Warm start: 5-10 s
- Hot start: 1-3 s
- 72-channels supported
- GPS, GLONASS
- BeiDou, Galileo
- Sensitivity Tracking & Nav: ~167 dBm
- Cold starts: ~148 dBm
- Hot starts: ~157 dBm
- Spoofing detection: built in
- Jamming detection

* based on 360 mA battery
Gedion tracking server (GTS) was specifically designed to meet the needs of Law enforcement agencies for remote objects tracking.

The system can be assigned to a single user or to a company with tracker control rights delegation.

Gedion tracking server (GTS) supports Sha-Ked GPS trackers. Client applications are available for Web, iOS and Android platforms.

Facing the fire the competition in the field of GPS tracking when developing our product we emphasized the following benefits:

- Server can be installed on a standalone PC. It can operate with or without an access to the Internet maps. Users can integrate their own maps for tracking.
- The server allows trackers operation modes switching in accordance to Geofence settings. E.g. trackers can “fall to sleep” for several days or increase the frequency of logging.
- The system provides intuitive Geofence settings with powerful post-analysis tools. For example, it is possible to obtain a report with the list and total numbers of Geofence crossing during the month.
- Radio signal jamming detection. When GPS signal is being jammed the system can detect this fact and display it to the user. When both GPS and GSM signals are being jammed this event can be logged to device memory and then uploaded to the server when the connection is restored.
- Tracking objects crossing detection. If several monitored objects happen to be in the same place and time the system can detect the event, save it for analysis and alert the user by SMS or email message.
- Parallel display of several trackers routes. To make several objects monitoring easier GTS allows displaying their routes on the same screen.
- Minimum stay reports. GTS can be set to show only the places where the tracking object was stationary for a set time period.
- Positioning without GPS.

www.gedion.it
Miniature flexible ultra-thin charging receiver is designed to make the process of concealing covert devices effortless and more convenient than ever.

The charging receiver is compatible with WPC v1.2 Qi Industry Standard, so that almost any wireless charger can be used for charging.

Wide range of charging currents: from 10 to 700 mA.

The flexible PCB can be sewn seamlessly into clothing — even a belt or a cuff — or any other flexible accessory.

Multiple soldering pads are available on the PCB, allowing you to customize battery placement.

The charging distance up to 4 mm makes it possible to hide the receiver inside thin materials.

**SPECIFICATIONS**
- PCB dimensions: 54.5 x 25 x 1.5 mm / 2.15 x 1 x 0.6 inch
- Battery nominal voltage: 3.7 V
- Charging current: 10–700 mA (configurable based on customer’s requirements)
- Compatible with WPC v1.2 Qi Industry Standard
- Maximum charging distance: 4 mm
- Flexible PCB