GSM Key-recovery

SPARK-series™ products deliver high performance GSM A5/1 and GSM A5/2, session key recovery in packages tailored for server or mobile use in operational environments. The systems are designed to run in both passive and active interception scenarios.

SPARK utilises a mix of rugged COTS equipment, integrated in a scalable and modular system with proprietary rugged hardware developed by CEPIA. The system has an open API structure to allow integration with various types of receivers and task allocators.

· 200+ session key recoveries per second with close to 100% success rate in a multi-message scenario. The balance between performance and success rate is adjustable on the fly.

· The system can work with both key-stream requests (4 consecutive frames) and cipher-stream requests* with CEPIA's own plain-text predictor. Plain-text prediction works even in networks with random fillers.

· Designed to work with no or minimal setup before operational.

· Designed for continuous 24/7 operation in tactical operational environments. Cluster option available.

· System is / can be integrated with most existing and future GSM-capable intercept receivers.
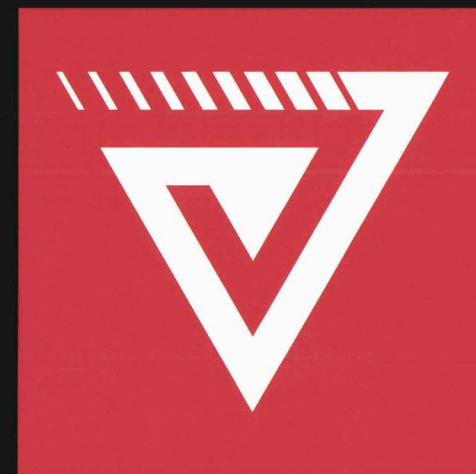
TAKE THE NEXT STEP...

For more information or to inquire about purchase, please visit *www.cepia.cz* or contact our sales representative directly at:

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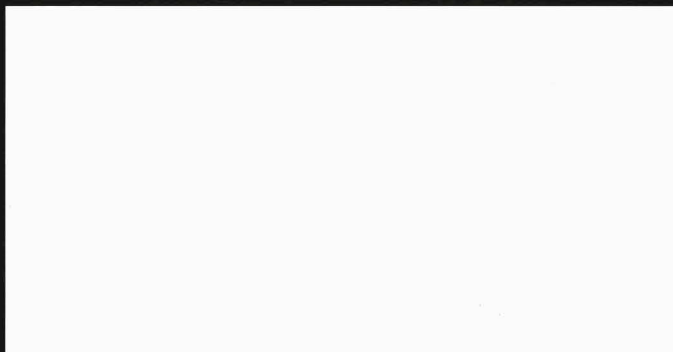
We are in business to innovate, not to copy

CEPIA
TECHNOLOGIES

GSM Decryption
SPARK-series™

MobileSpark™

This unit redefines GSM decryption, with massive performance, low price and small size/weight/power consumption. With the MobileSpark™ it is possible to decrypt all captured traffic even from high-performance SDRs that capture all channels in GSM spectrum. This enables new concepts of operations.

Key figures (normal / extended):
- Up to 70 / 140 keys/sec
- Up to 99,5% single-message success rate
- Less than 1.5 sec latency, 800ms average
- 2 / 2+1U 19" rack, 35cm deep
- 9-32VDC 500 / 800W power (max)
- Ships with 85-264VAC power-supply

SparkServer™

The SparkServer™ is a clusterable unit delivering massive performance from a central location, at an industry leading price/performance.

Key figures:
- Up to 200 keys/sec per unit
- Up to 99,8% single-message success rate
- Less than 1.5 sec latency, 800ms average
- 2x 2U 19" rack, 65cm deep

MobileSpark™ (Ultra) Light

This highly capable decrypt unit is the ideal compromise between size, performance and ruggedness. Its modest size of only 1U and low power consumption allows for almost any installation. Thanks to its superb build quality with harsh operational environments in mind the MobileSpark™ (Ultra) Light will provide a high number of keys per second exactly where you need it the most. Being subject to constant shocks in a vehicle or vibrations onboard an airborne platform is well within the limits for this unit.

Both active and passive operation is simultaneously available in this unit.

Key figures (Light / Ultra Light):
- Up to 12 / 6 keys/sec
- Up to 98+% single-message success rate
- Less than 1.5 sec latency, 800ms average
- 1U 19" rack, 33,5cm deep
- 9-32VDC 165 / 110W power (max)
- Ships with 85-264VAC power-supply

SparkPlug™

SparkPlug™ is the best selling unit in the Spark-series™, offering both a normal version capable of simultaneous active and passive operation, and a active only 'light' version.
Same small 1U 19" form-factor as the MobileSpark™ (Ultra) Light units.

Key figures:
- Up to 2 keys/sec
- Up to 96+% single-message success rate
- Less than 1.5 sec latency, 800ms average
- 1U 19" rack, 33,5cm deep
- 9-32VDC 95W power (max)
- Ships with 85-264VAC power-supply

SparkPlug™ Embedded

The embedded SparkPlug™ is the latest addition to the Spark-Series™ and physically the smallest, which makes it the preferred choice for highly mobile, portable and even body-worn applications. It comes in two versions, one active only version and a passive/active version.
Can also be delivered as PCB.

Key figures (active / passive):
- Up to 1 / 2 keys/sec
- Up to 96+% single-message success rate
- Less than 1.8 sec latency, 800ms average
- 125x80x20mm (LxWxH)
- 9-32VDC 12 / 20W power (max)
- Battery option with integrated charger
- Ships with 85-264VAC power-supply