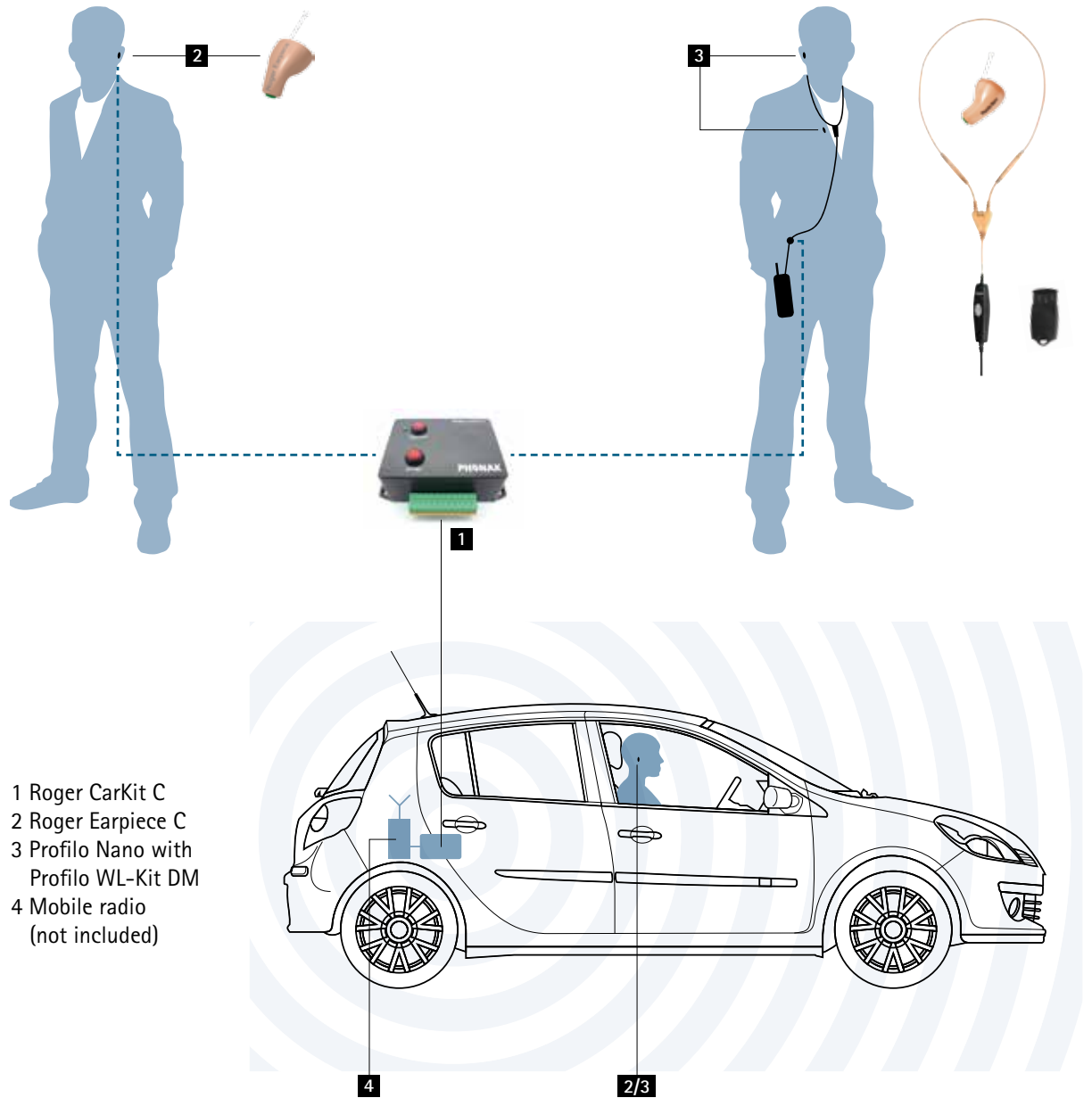


Wireless Communication for cars

The Phonak Roger CarKit C is a unique, state-of-the-art, wireless transmitter developed for covert operations in vehicles. The Roger CarKit C is able to broadcast from two different audio sources (i.e. radio and GSM). If communication comes through both sources at the same time, they will be mixed together. The Roger CarKit C transmits a digital and AES 128-bits bit encrypted audio signal either directly to a Roger Earpiece (2) or a Profilo WL-Kit DM (3).

Description



- 1 Roger CarKit C
- 2 Roger Earpiece C
- 3 Profilo Nano with Profilo WL-Kit DM
- 4 Mobile radio (not included)

Roger technology

Roger is a new wireless transmission technology, which allows low delay and reliable audio broadcasts to miniature, low-power receivers. Sophisticated adaptive algorithms in the Roger architecture give a performance level which was considered almost impossible. Roger systems are based on Phonak's proprietary technology and ensure unmatched discretion, unrivalled intelligibility and unbeatable ease of use.

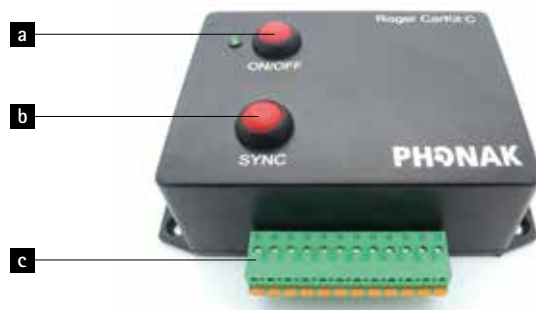
AES encryption

The transmission is secured with an AES 128-bits encryption where the code is exchanged at the time of (the manual) synchronization. The robust Advanced Encryption Standard (AES) is the algorithm trusted as the standard by the U.S. Government and numerous organizations.

Functions

Wireless audio signal transmission

- a) On/Off
- b) Synch
- c) All wired connections (Power supply, remote sync, On/Off)



Compatibility

Both CarKit generations (CarKit DM and Roger Roger CarKit C) are compatible with Roger Earpiece C and Profilo WL-Kit DM systems (incl. Profilo Nano). The systems can be used in all combinations.

Technical Data

Roger CarKit C

Operating temperature	-15 to +60 °C
Storage temperature	-20 to +60 °C
Encryption	AES 128-bits
Supply voltage	6 - 24V
Current consumption ON	35 mA
Current consumption OFF	1 mA
Audio Input	2.5mVrms - 7.8 Vrms
Technology	Proprietary protocol - adaptive frequency hopping
Wireless transmission	Built-in antenna
Transmission frequency	2.4 Ghz
Audio streaming range	Full coverage inside car
Synchronization range	Full coverage inside car
Number of receivers	Unlimited

Norms

The Roger CarKit C fulfills the following norms :

Radio Frequency emission	EN300328
Electromagnetic compatibility	EN301489-1 / EN301489-9 / EN301489-17 / EN301489-18
Electrical safety	EN60950-1
2004/104/EC	Automotive EMC directive
UN E/ECE/324/Add.9	Regulation No.10

