

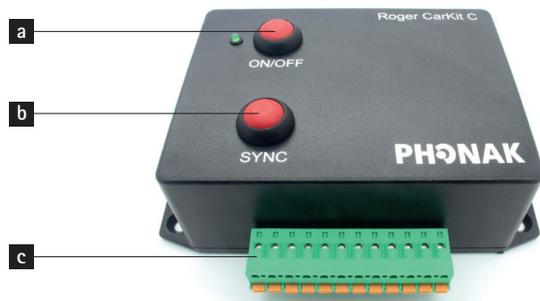
Roger™ technology

Roger™	<p>Roger™ is a patented technology developed by Phonak, which features adaptive, wireless transmission and runs on the 2.4 GHz band. Roger™ audio signals are digitized and packaged into very short digital bursts of codes packets and broadcast several times, each time using different channels between 2.4000 and 2.4835 GHz.</p> <p>Frequency-hopping between channels, in combination with these repeated broadcasts, avoids interference issues and ensures successful transmission.</p> <p>Phonak has developed the proprietary Roger™ microchip for dedicated use with miniaturized ear-level receivers.</p>
AES encryption	<p>The transmission is secured with an AES 128-bits encryption where the code is exchanged at the time of on demand synchronization. The robust Advanced Encryption Standard (AES) is the algorithm trusted as the standard by the U.S. Government and numerous organizations.</p>
Transmission technology	<p>2.4 GHz adaptive frequency hopping</p>

Functions

Wireless audio signal transmission

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



Compatibility

Roger™ CarKit C can stream directly to Roger™ Earpiece C. It can as well stream to analog transductive Profilo DM wirings, in that case listening is through the Profilo Nano receiver.

Compatible Roger™ receivers Roger™ Earpiece C, Profilo WL-Kit DM

Technical Data

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
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	IEC EN 62368-1
2004/104/EC	Automotive EMC directive
UN E/ECE/324/Add.9	Regulation No.10

