



PhoneBoosterVan 2.0: the new era in the 4G reception

It is a well-known fact that 4G reception in a recreational vehicle is not always the best. To be able to surf the net even when coverage is limited, Teleco offers a signal amplifier capable of multiplying signal strength up to 400 times. It does not require a SIM card and works with all phone operators

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The importance of communications on the road is more strategic than ever. Smartphones are used for more than phone calls and have become the hub of all social life and entertainment, especially now that videos streaming is often more popular than traditional TV broadcasting. However, holidaymakers are painfully aware that the 4G signal strength can vary and having a stable, good-quality connection is sometimes difficult, particularly in the most attractive locations for camping with a motorhome and caravan. Video transmissions

that requiring a reasonable bandwidth with a constant signal level are the most affected by this condition.

Having only one bar on your phone often means a very slow Internet surfing speed or even the inability to connect altogether. In cases like these, there is not much else you can do besides changing place to hunt for better coverage. Teleco has the answer to the need for a stronger 4G reception with a system that increases signal strength up to 400 times. PhoneBoosterVan is an amplifier specifically designed for recreational

vehicles, now available in version 2.0, with a new external aerial designed to further improve the signal and reduce any interference. Developed in collaboration with the Chinese giant Huaptec, the new PhoneBoosterVan 2.0 can be easily installed on-board taking only a few simple precautions into account.

Energy-efficient

The system consumes about 500 milliamperes constantly but the advice is to always provide it with a switch to turn it off when



not needed. This avoids unnecessary consumption and also the production of heat. It is always advisable to ensure a minimum of air circulation around the system even if it is designed to work in extreme environmental conditions from minus 45 up to over 55 degrees centigrade.

PhoneBoosterVan 2.0 is fully automatic using all five bands allocated to telephone operators, from 800 megahertz, through GSM 900, up to 2,600 LTE. The system includes two aerials, one to be fitted outside and one to be installed inside. The first has an upward-facing cone-shaped capture area, while the second one generates inward-facing radiation. The two aerials must not loop because this would prevent the system from working properly. Just keeping them apart avoids problems. The outside aerial is usually placed in the rear end of the vehicle and the inside one in the living area. The outside aerial has been upgraded for the new version of PhoneBoosterVan and is no longer a shark fin aerial that created more horizontal radiation that was more likely to create interferences on smaller vehicles. The design of the new device eliminates this risk entirely.

Two-way communication

The system does not amplify at all when you are in an area with sufficient signal strength. If the external signal is less strong, PhoneBoosterVan 2.0 picks it up and increases it by up to 50 dB. The indoor aerial, in turn, increases the signal coming from the smartphone to communicate better with the radio repeater of the mobile phone operator. The system is two-way with both aerials receiving and transmitting an amplified signal.

Of course, if there is no signal in the field, the PhoneBoosterVan 2.0 cannot work miracles. However, thanks to its power, this system can offer connectivity to mobile phones and connected devices inside the living pod and immediately surrounding it. An adequate power signal means being able to extend the autonomy of the devices, which are not forced to continuously search for a better network.

"We are confident that this innovative mobile phone repeater will meet with the favour of European camper van and caravan users," said Raul Fabbri, one of the two founding members of Teleco Group. *"We are the first to offer a solution like this and we have chosen a technological partner with a long experience in this field, which has allowed us to develop a professional system of the highest quality. Our booster, which is compatible with all brands of mobile phones and all telephone operators, creates a centralised 4G hotspot, inside the motorhome and in its immediate vicinity, which also works with the vehicle on the move."*

For correct installation, the suggestion is to try to place the aerials in the planned position and to run tests to check that there are no conflicting signals before fixing them permanently. In case of a problem, the LED on the device indicates that something is wrong. No special tools or specific expertise are needed. In addition, the Signal Supervisor app, compatible with Android and iOS smartphones, allows you to see that all bands are operating correctly. PhoneBoosterVan 2.0 is supplied by Teleco complete with ready-to-use wiring system, a three-metre-long cable to the outdoor aerial and a two-metre-long cable for the indoor one, in addition to the power supply. Of course, specific extensions are available, if necessary. A typical installation takes no more than a few hours if no particular problems are encountered.

A WiFi router is also available as an option

Being a signal amplifier, PhoneBoosterVan 2.0 does not require a SIM card. Communications with the operator are handled



The PhoneBoosterVan kit

Company profile

Teleco Group is a group of leading companies in the recreational vehicle industry, based in Northern Italy.

Teleco SpA designs, manufactures and markets a complete range of devices and equipment for terrestrial and satellite TV signal reception, televisions, satellite navigation devices, cameras and monitors, multimedia systems and photovoltaic modules.

Telair srl is specialised in the development and manufacture of air conditioners, generators and inverters.

The Group's products are marketed throughout Europe, where a widespread support network is available.

The Teleco Group has two subsidiaries in France and Germany: Teleco GmbH and Teleco sas.

through the card in the phone. Teleco has the T400 WiFi VAN Router T400 powered at 12 Volts, instead, to distribute the signal to more than one device over WiFi. In this case, a dedicated SIM card is needed possibly with data traffic appropriate to the expected needs.

Since the product essentially generates a radio link, Huaptec and Teleco have certified PhoneBoosterVan according to all relevant international and European standards, including the RED (Radio Equipment Directive) 2014/53/EU. Compliance, safety, health and quality are always guaranteed.



Above:
the omnidirectional
inside aerial.

On the right: the Booster.