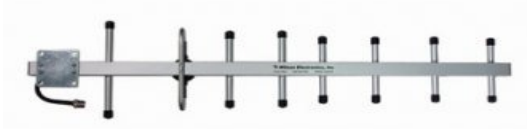




Getting better cellphone coverage with Nelspecs.

A guide to improving in house cell & data connectivity by Technical Sales at Nelspecs Ltd.

The first step to good coverage with a cell booster system is obtaining a good signal. Directional antennas are very sensitive to the signals they are directed at and reject unwanted signals from other paths.

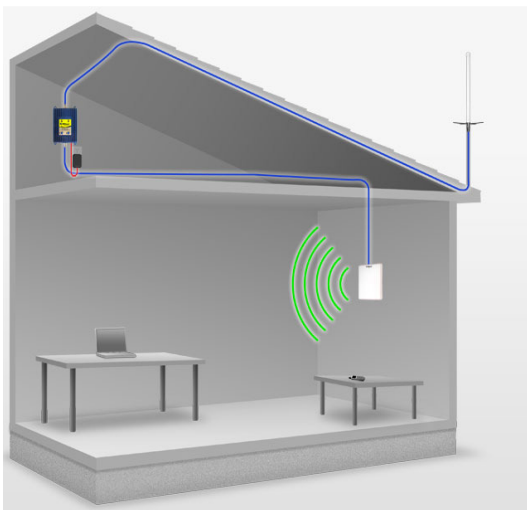


Because directional antennas produce good levels of wanted signal with low levels of unwanted signal they work well with high gain boosters in poor coverage areas.

Boosters work in two ways:
They amplify very weak signals coming in from an antenna, increasing them to a level where electronic circuitry can work with them.

Wireless boosters further amplify the signal to levels where it can be applied to an internal antenna and radiated into the surrounding room environment.

This allows people with cell phones and other cell-connected systems access to the outside world.



To connect the high gain antenna, (which is usually installed on the roof), with the booster inside, quality low noise, low loss antenna cable is used.

The booster needs power to operate. A 230Vac supply to which a power pack can be attached usually provides this. The boosters are also able run from battery supply by using adapters.

Indoor aerials are positioned for coverage and can either be mounted in ceilings or on walls.

With the cell booster kit in place a data router can be introduced into the system.

A router is a device that manages the task of transporting data from a local area network to and from a network of a very different kind.

In this case the router interfaces the WIFI/LAN to the cell radio system. This allows digital devices to access the internet.

Routers such as the Ericsson W35 shown here also have the functionality to connect with cordless phones as they would with a wired connection.



The router gains access to the cell network by means of a SIM card which identifies an account with the cell service provider.

This is set up as easily as contacting your service provider and establishing an account for voice and data.