

Theory of Operation

The WirePlus system has three modes of operation:

Idle:

This mode is a 'listening' mode: Both directions: up (TX) and down (RX) are active. In this mode the system is waiting for a signal to come.

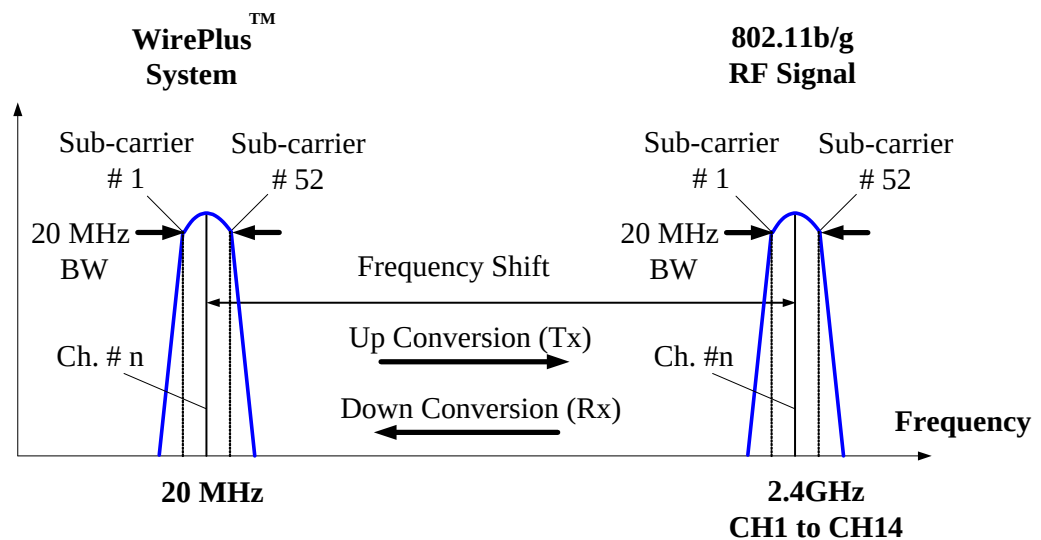
TX:

A signal comes from the two wires direction is detected by the TX detector (TxTH), the control circuitry located out of the XTN is sending a command to switch to TX mode.

RX:

A signal comes from the antenna direction (RF) is detected by the RX detector (RxTH). The control circuitry located out of the XTN is sending a command to switch to RX mode.

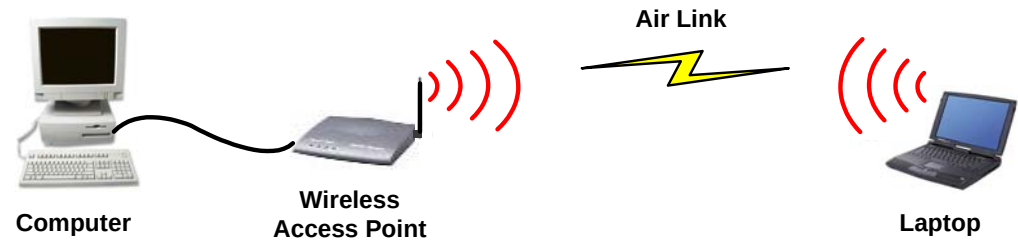
Basic WirePlus operation



WirePlus method and applications

WiFi system without WirePlus add-on:

Result: → Limited coverage wireless communication



WirePlus Extender (XTN) application:

WiFi system with WirePlus add-on (Two XTN up/down converters units):

Result: → Extended coverage wireless communication (Remote rooms)

