

Zigbee

Given all the information, it was chosen the signal transfer, but using a set of protocols as is indicated by NASA (2), which give security when using the aircraft. Thus, the communication without cables, it was chosen to implement ZigBee, which is the name of the specification of a set of protocols of high level wireless communication for its utilization with digital broadcasting of low consume, based on the standard IEEE 802.15.4 of Wireless Personal Area Network (WPAN) (5). Its objective is to enable wireless networks with control capacity, monitoring of low cost as well as low reliable consumption. ZigBee is for private use, and its main characteristic is that it is very reliable. Which objective is to enable wireless networks with control capacities and monitoring that are reliable, low cost and energy consumption.

This system has a great number of alternative routes to guarantee that the information arrives to its destination. It is used currently in the robotics world (smart house) and one advantage of using this technology is that its cover range is ideal for aircrafts. Its performance is not affected by networks (like WiFi or Bluetooth) because its low data transmission rate and the characteristics of the same protocol.