



AIRcable Host XR™ / Industrial XR™

The only long-range (10 km-class) Bluetooth® USB "Dongle"

The standard range you can expect with the included antenna is about 1km range. The largest rubber duck antenna (9dBi) gives you 2km range. This is about the limit of the FCC certification for omni-directional antennas. Using directional antennas we can reach a range of about 10km within the FCC regulations using two 18dBi directional antennas.

If you use one XR and one other device with a weaker radio you get less range. With a cell phone or PDA you can expect about 100m range depending on the antenna. With a good directional antenna you get about 1km range maybe more communicating with a cell phone.

Anything between the transmitters will reduce signal strength. A wall will reduce the range. The range reductions will depend on the wall's material and thickness.

Bluetooth radio waves bounce off walls too. A staircase between stories allows the signal to go from one level to another, even in a steel reinforce concrete building.

Send files long distances to cell phones

Send a file to a cell phone from far away. This could contain a coupon or an advertisement. Bluetooth advertisement is a growing business. Or, send a file with conference/meeting information. Linux machines can handle more than one AIRcable Host XR connected via USB, allowing you to increase the number of cell phone connections at the same time. Each AIRcable Host XR give you 7 simultaneous connections

Specification

Industrial strength aluminum case	small size: 83mm x 65mm x 23mm case mounting flanges magnetic bottom Industrial operating temperature range -40°C ...85°C
Power supply	Powered through USB, 5V, max 200mA
Bluetooth with external antenna connector	omni-directional antenna up to 2km with 9dBi directional antenna up to 10km with 18dBi professional installation up to 30km with 24dBi parabol external cable available
Bluetooth profiles	depends on the bluetooth software & drivers on the computer to which it is connected
Certifications	Bluetooth certified (BQB) Bluetooth 2.0 compatible with 802.11b tolerance (AFH) FCC authorization 15C CE certification
Radio	raw output power: 19.5dBm input sensitivity: -92dBm omni directional antennas: up to 9dBi directional: up to 18dBi professional installation up to 24dBi antenna connector: RP-SMA NOTE: If you are using the AIRcable Industrial XR outside the USA, please check with your country and local output power regulations.

Key Features:

- Bluetooth 2.0-compatible
- Standard USB connector
- Works with Windows, Linux, and Mac OS X.
- 1 km external antenna included
- Extended range for up to 30 km
- No external power needed
- Aluminum case for reduced interference and increased sensitivity
- Extends the range of your existing bluetooth devices!
- Built on AIRcable XR™ long-range technology
- Up to 3Mbit/s

The AIRcable Host XR, equipped with an extremely-powerful, highly-sensitive Bluetooth transmitter, can achieve an unparalleled range of up to 30 km! With a 9 dBi omni-directional antenna, the extended range is up to 2 km, and with the 18 dBi directional antenna, it is up to 10 km. Additionally, given its high sensitivity, it can extend the range of weaker Bluetooth devices like cell phones and headsets by hundreds of meters. With most other devices only capable of obtaining a range of 10 meters or less, no other Bluetooth device comes even close. Plus, this long-range Bluetooth transmitter connects to any computer with a Bluetooth connection and can handle virtually any Bluetooth profile available. Uses include standard data, streaming data, headsets communication (like Skype calls), and stereo headphone communication, amongst others.

With the AIRcable Host XR you can extend the range of communication from your PC to other Bluetooth devices.

The AIRcable Host XR's Bluetooth radio receiver is many times more sensitive than the average Bluetooth device. You can expect about a 10 times more range than with other standard Bluetooth dongles.

AIRcable Host XR / Industrial XR FAQ

Q1: What is the range of the Host XR / Industrial XR?

A1: The range of the AIRcable XR products depends on 3 things:

1. The Antenna attached to the XR product
2. The other Bluetooth device you are wirelessly communicating with
3. The environment you are communicating in

Generally speaking we give range figures using 2 XR devices (AIRcable Host XR or AIRcable Industrial XR) with the same antenna talking to each other outdoors in a line of sight environment and in beautiful Santa Cruz weather, for example: on the beach.