

Device Name	Cost	Website	Subscription	Technology	Range	Battery Life	Track online?	Fits cats and small dogs?
Trackr	\$30	https://store.thetrackr.com/	No	Bluetooth	Variable. 100 ft of any active Trackr user's device.	1 year	Yes - through app	Yes
Tile	\$25	https://www.thetileapp.com	No	Bluetooth	Variable. 100 ft of any active Tile user's device.	1 year	Yes - through app	Yes
Garmin	\$630	https://buy.garmin.com/en-US/US/p/545353	Included for first year	GPS	4-5 miles	20 Hours	Track on Handheld device (not phone)	No
Whistle	\$79.99 device + \$95.40 annual subscription	https://www.whistle.com/faq/	Yes	Wifi, Cellular, GPS	United States, in areas with cellular coverage (AT&T).	2-7 days	Yes - through app	Yes
AKC Link	\$129 device + \$95.40 annual subscription	https://shop.linkakc.com/products/link-akc-smart-dog-collar	Yes	Wifi, Cellular, GPS	United States, in areas with cellular coverage (AT&T).	3 days	Yes - through app	Yes

Technology Overview			
Type	Best use	Think Twice	How they work
GPS	Open field, not a lot of hills, can "talk" to the sky. Unlimited range.	Not for use indoors, heavy overcast, lots of topographical nooks and crannies. Also, many need cell networks. If there isn't a good cell area, this might not be a good device.	Pet wears a device that pings satellites, sending GPS info to your phone or computer.
Radio	Frequencies pass through buildings and other obstacles (urban centers and heavily wooded areas; smaller so cat appropriate; longer battery life (several months)	Animals wear transmitter (some still have antennas) on collar; limited range. Can't SEE where the pet was - basically a game of Marco Polo. Use audio signals (louder or quieter pings) to locate your pet. Best for short range or a known location.	Animals wear an antenna that can be read by a tracking unit.
Bluetooth	Short distances, keys, indoor cats hiding in the eaves, etc. Can see the place where signal was last pinged on a map.	Not great for large distances, potential security risk (data). If used for pets, better with lots of people (crowdsourcing).	Two way communication between a reader and a tracker, and they can find each other once paired. (Excellent for keys, wallet or missing phone!)
Wifi	Long range (though not infinite like GPS), work indoors unlike GPS, and other obstructed areas as long as there is WiFi near by (need three hotspots to locate item/pet.) Great for urban environments	No WiFi, no signal. Need three overlapping WiFi spots to locate, so in rural areas, this is not ideal.	Similar to GPS using satellites, WiFi uses WiFi Hotspots to locate missing pet / missing item

Cell Towers	Assisting GPS (A-GPS collars); Some use ONLY cell.	Needs cell coverage for the company that works with the device (most we found were AT&T. Check coverage maps). Works well as a back up method and is built in with some of these other devices.						
Resources								
http://www.gundogsupply.com/traditional-tracking-collars-and-beeper-collars-vs--the-garmin-astro-gps-dog-location-syste.html								
https://www.podtrackers.com/blog/technology/choosing-right-type-tracker-gps-tracking-tech-explained/								
https://lostpetresearch.com/2011/01/gps-versus-radio-tracking-pros-and-cons-for-finding-cats/								