Antenna maker Ethertronics launches the EtherChip EC482-- the first RF device from the company featuring Active Steering "beam steering" technology for wifi and other MIMO (Multiple Input Multiple Output) 5GHz applications.

Beam steering involves the generation of multiple signals from a single antenna. A combination of algorithms and RF signal monitoring predicts the optimal signal for use in the current situation, with the EC482 chip acting as master controller.

As the company puts the process provides "revolutionary improvements in range, data throughput and signal quality," as well as "interference reduction, robustness in multipath environments, improved connection reliability and better spectral efficiency."

According Ethertronics tests the chip shows a 20-45% increase in throughput between access points and devices on the network fringes-- a desirable for ISPs wanting to providing a single router to serve their customers' needs. Furthermore the company says the EC482 is easily integrated in a variety of products, including access points, STBs, wifi routers, wifi extenders and Internet of Things devices.

Go Ethertronics Invents New Active Steering IC